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ABSTRACT

This annotated sourcebook, arranged in three sections by form, is comprised of book, periodical, and 16mm film citations and designed to assist teachers and administrators in the selection of materials for school programs in population-environment studies. Selection was on the basis of their usefulness for school programs. Annotations given are the opinions of teachers participating in a workshop of the Population Curriculum Study. The comprehensive book bibliography of publications dating from 1955 through 1971 offers a valuable guide to establishing a basic school library in population studies. Books are arranged by the following topics: demography, ecology, genetics, medical sciences, natural resources, pollution, population control and education, regional planning and land use, social, political, and economic factors, and futurism. These books are coded as to intended grade level. Several curriculum guides and lab manuals are included. Films were selected on the basis of availability, currentness, and those enhancing the concept development. Included are a topical cross index and sources for distributors of films. (SJM)

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A SOURCEBOOK FOR POPULATION-ENVIRONMENT STUDIES

SO 004 035

EXPERIMENTAL EDITION
UNIVERSITY OF DELAWARE - 1972

ED 065432

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A SOURCEBOOK
FOR
POPULATION-ENVIRONMENT
STUDIES

POPULATION CURRICULUM STUDY
UNIVERSITY OF DELAWARE
NEWARK, DELAWARE 19711

EXPERIMENTAL EDITION
1972

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TABLE OF CONTENTS

	PAGE
INTRODUCTION	5
PARTICIPANTS	7
BIBLIOGRAPHY	9
PERIODICALS	115
FILMS	141

INTRODUCTION

This sourcebook is designed to assist teachers and administrators in the selection of materials for school programs in population-environment studies. It is composed of three sections: an annotated book bibliography, an annotated list of periodicals, and an annotated list of films.

The annotations in the bibliography are the opinions of the teachers participating in a workshop of the Population Curriculum Study. In general, the materials have been rated according to their usefulness for school programs. A major share of the work was done by Harry J. Dillner, Jr., and Clifford J. Brown.

The market is being flooded with books on the environment and many publications have been omitted here due to limitations of time and money. Nevertheless, the bibliography is quite comprehensive and is valuable in establishing a basic school library in population-environment studies. Highly technical publications are omitted.

The periodicals list is important because it serves as a source of up-to-date information which may not appear in books for several years. Periodicals add a quality of immediacy that is important in population-environment studies because the field is growing very rapidly and because many conditions and attitudes are changing rapidly. Through periodicals, a diversity of viewpoints can be studied, and sometimes local problems can be brought to light. Many of the annotations of periodicals were prepared by Thomas S. Hounsell, an EPDA Fellow with the Population Curriculum Study.

The preparation of an annotated film list is a massive task and therefore the notes are from various sources. A substantial number of the films were previewed, rated and annotated by the teachers of the Population Curriculum Study during a period of about three years. New films are constantly coming into circulation so it is impossible to have a completely up-to-date list.

Films are important in bringing population-environment issues into the classroom. Fieldtrips, although valuable, are often difficult, time consuming, and expensive. Generally, films on population-environment problems are best used as stimulating, provocative introductions or special features of broader studies. Films tend to arouse emotions and raise questions while attempting to deal with very broad topics in 25 to 30 minutes. It is therefore of the greatest importance to use films as supplements to more detailed and disciplined studies.

A major share of the work of preparing this film list was done by James F. Smith, An EPDA Fellow with the Population Curriculum Study.

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Codirectors of the
Population Curriculum
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Robert Miley. Hanby Junior High School ('70)
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BIBLIOGRAPHY

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COLLEGE OF EDUCATION
UNIVERSITY OF DELAWARE
NEWARK, DELAWARE 19711

JANUARY 1972

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NOTE TO USERS OF THIS BIBLIOGRAPHY:

Population-environment studies include so many disciplines that it is often difficult to classify books clearly. If one category does not include the type of material you want, try another. For example, McHarg's Design With Nature is listed under "Ecology" when one might logically look for such material under "Regional Planning." Cross-referencing of titles will be done in the next revision of this bibliography.

BIBLIOGRAPHY

TABLE OF CONTENTS

Pages

1. Demography, Dem 1-7 13
2. Ecology, Eco 1-6 20
3. Genetics, Evolution, Biology, GEB 1-7 26
4. Medical Sciences, Med 1-2 33
5. Natural Resources, NR 1-21 35
6. Pollution, Poll 1-6 56
7. Population Control, PC 1-4 62
8. Population Education, Pop Ed 1-3 66
9. Regional Planning and Land Use, RPLU 1-2 69
10. Social, Political, Economic, SPE 1-12 71
11. Speculative, Spec 1-6 83

* * * * *

12. Bibliographies and Resource Lists, BRL 1-5 89
13. Curriculum Guides and Lab Manuals, CG 1-5 94
14. References, Ref 1-3 99

* * * * *

15. Publishers and Sources for Material, PSM 1-13 102

KEY TO CODING

PB -- paperback
ALL - general reader
TO -- teacher oriented

PO -- pupil oriented
  L - lower school
  M - middle school
  U - upper school

DEMOGRAPHY

Agency for International Development, Population Program Assistance, U.S. Government Printing Office, 1969.
PB, TO. Demographic information. A description of the assistance being received by population programs in foreign countries.

Bates, Marston, The Prevalence of People, Charles Scribner's Sons, 1955.
TO, PO-U. Statistical information about the present population and predictions for the future. Discusses man's social structure, biological and cultural evolution; comments on Malthus. Somewhat outdated.

Beshers, James M., Population Processes in Social Systems, Free Press, 1967.
TO. Reviews population theory, stating the classical Malthusian position and contrasting it with the theories of Marx and Weber. Summarizes the birth and death rates in Western nations; migration. Furnishes the beginning student of population theory with basic information.

Bogue, Donald J., Principles of Demography, John Wiley and Sons, Inc., 1969.
TO. Could serve both as a textbook and as a reference book. Many tables included; encyclopedic.

Cépède, Michel, et al, Population and Food, Sheed and Ward, 1964.
TO. A discussion of how populations and food production have developed. Economic exploitation, surpluses, and shortages. Optimistic.

Cipolla, Carlo, The Economic History of World Population, Penguin Books, Inc., 1967.
PB, ALL, PO-U. World economic history with emphasis on population; the population explosion, the low economic levels of some countries, and the uneven distribution of industrial and technical knowledge. Good background for teachers.

Clark, Colin, Population Growth and Land Use, The University Press, Glasgow, Scotland, 1969.
TO. A review of population problems today and projections for the future. Topics include population growth, fertility, economics, and industrial growth in relation to population.

Cook, Robert C., and Jane Lecht, People! Columbia Books Inc., Publishers, 1968.
PB, PO-M. Middle school orientation to the "elements of human arithmetic"; population growth and the quality of life in various parts of the world. Statistics for inductive reasoning.

Council on Higher Education in the American Republics, Demography and the University, Institute of International Education, 1969.
PB, TO, PO-U. Specifically applies to the teaching of demography in Latin-American universities. Lessons probably could be applied to other curricula.

Davis, Kingsley, The Population of India and Pakistan, Princeton University Press, 1951.
TO. Discusses the development of the population problem and the social structure and change in India.

Day, Lincoln H., and Alice Taylor, Too Many Americans, Dell Publishing Co., 1964.
PB, TO. The consequences of, and the social responsibility for, America's population growth, the factors shaping attitudes and values and the arguments for and against stabilization. Concern with the quality of life. Excellent bibliography.

DeJong, Gordon F., Appalachian Fertility Decline: A Demographic and Sociological Analysis, University of Kentucky Press, 1968.
PB, TO. A demographic profile of a particular region--Appalachia.

Ehrlich, Paul R., The Population Bomb, Ballantine Books, 1968.
TO, PO-U. The problems of over-population and hunger; what we are doing to solve the problem, what needs to be done, and what we can do as individuals. Considered alarmist by some.

Farmer, Richard N., et al, eds., World Population--The View Ahead, Indiana University, Bureau of Business Research, 1968.
ALL, PO-U. Essays on population covering economic and technological factors, sociological factors, quality of life, birth and death controls, and ethical issues of birth control. Each essay is by an authority in the field and is followed by a critical commentary by another authority.

Fisher, Tadd, Our Overcrowded World, Parents' Magazine Press, 1969.
ALL, PO-U. Examines many population problems, e.g., population growth in developed and underdeveloped countries, agricultural techniques and moral issues. Charts show not only the numbers and locations of people, but their ages and other factors significant in population growth. Good overall study of population explosion that is not too lengthy for the average reader. Specific examples illustrate facts.

Frankel, Lillian B., This Crowded World, Columbia Books, Inc., Publishers, 1970.
PB, PO-M. Describes the population explosion; how the population got so large, how we know how many people there are, and what could happen if growth continues. Emphasizes the necessity of bringing the birth rate into balance with the death rate.

Freedman, Ronald, ed., Population: The Vital Revolution, Anchor Books, 1964.
PB, TO. Contains articles dealing with the population problem, longevity and mortality, fertility, migration, U.S. population, and the population problems of selected world countries. Good reference book.

Griffin, Paul F., ed., Geography of Population, Fearon Publishers, Inc., 1969.
TO. Papers on population history and present data in areas of giant aggregates, high density, low density, with future prospects considered. Provides data for teachers on urbanization, politics, the land, famine and food surpluses and how they affect population history, density, spatial variations, physical and human environments, population composition and migrations.

Hauser, Philip M., ed., The Population Dilemma, Prentice-Hall, Inc., 1963.
PB, TO, PO-U. Comparative demographic studies. Nations are the units of analysis. The economic, political and social processes of population development. Expository.

Hauser, Philip M., Population Perspectives, Rutgers University Press, 1960.
ALL, PO-U. A factual presentation of world, U.S., and city population explosions and the results of this explosion. Somewhat out of date. Good examples of the effect of the population explosion on individuals.

Hauser, Philip M., and Otis D. Duncan, The Study of Population: An Inventory and Appraisal, University of Chicago Press, 1959.
TO. An encyclopedic summary of the field of demography, ranging from its historical beginnings to promising subjects for its future study, from analysis of demography's subfields to the possibilities of its integration with other scientific disciplines.

Heer, David M., ed., Readings on Population, Prentice-Hall, Inc., 1968.
PB, TO. A collection of readings challenging well-established beliefs, original in approach; discussion of factors bearing on population problems. A good resource for teachers.

Hollingsworth, T.H., Historical Demography, Cornell University Press, 1969.
TO. Explanation of demographic techniques, historical sources of information on population, important work already done and suggested improvements. Technical.

Hutchinson, E.P., The Population Debate, Houghton Mifflin Co., 1967.
TO. Selected aspects of the pre-twentieth-century population literature; formal population theory.

International Planned Parenthood Federation, ed., Can Mass Starvation Be Prevented?, Victor Fund Report No. 7, International Planned Parenthood Federation, 1967.
PB, TO. A series of short articles by experts in population and allied fields.

Keyfitz, Nathan, Introduction to the Mathematics of Population, Addison-Wesley Publishing Co., 1968.
TO. Variety of material from biology, actuarial sciences and demography. Mathematical.

Keyfitz, Nathan, and Wilhelm Flieger, World Population: An Analysis of Vital Data, University of Chicago Press, 1968.
TO. Statistical analysis of births, deaths, and population by age and sex for various periods of time and countries; comparisons of mortality and fertility, projections of mortality and fertility, age distributions.

Kiser, Clyde V., et al, Trends and Variations in Fertility in the United States, Harvard University Press, 1968.
TO. Census and registration data indicating factors involved in trends and variation in fertility. Tables and charts.

Leibenstein, Harvey, The Impact of Population Growth on "Non-Economic" Determinants of Economic Growth, reprinted from the World Population Conference, 1965, Vol. IV, United Nations, Harvard University, Center for Population Studies, 1967.
PB, TO. 14 examples of non-economic determinants of population growth. Not recommended.

Lenica, Jan, and Alfred Sauvy, Population Explosion, Dell Publishing Co., 1962.
PB, TO. Subtitled "Abundance or Famine." Innovative illustrations combine with written matter to present the urgent problem of balance between fertility and survival.

Malthus, Thomas Robert, Population, The First Essay, University of Michigan Press, 1959.
PB, TO, PO-U. A classic. Valuable for historical perspective.

Malthus, Thomas, Julian Huxley, and Frederick Osborn, On Population, Three Essays, The New American Library, Inc., 1960.
PB, ALL, PO-U. More than a hundred years of thought on a pressing modern problem.

Mudd, Stuart, ed., The Population Crisis and the Use of World Resources, W. Junk, Publishers, 1964.
TO. Essays on population, effects of population, birth control, action programs, current and projected use of resources; reference.

Myrdal, Alva, Nation and Family, The M.I.T. Press, (book) 1941, (preface) 1968.
PB, ALL, PO-U. A comparative study of U.S. and Sweden; concerns of the state for the institution of the family. Social needs should be reflected in family policy. Reference for high school sociology students in 11th or 12th grades.

National Education Association, Committee on International Relations, Other Lands, Other Peoples, National Education Association, 1969.
PB, ALL. Information and statistics on each country of the world; covers location and size, geographic features, cities, people, religions, language, government, East-West relations, economy, food and holidays.

Nortman, Dorothy L., The Population Problem, National Education Television, 1965.
PB, TO, PO-M, U. Handbook for films on population. Films and chapters on Brazil, Europe, Japan, India, U.S.A. Facts of Life.

Organski, Katherine, and A.F.K. Organski, Population and World Power, Alfred A. Knopf, 1961.
ALL. Population as it impinges on diplomacy and problems of war and peace. Over-generalizations make source value minimal. Not recommended.

Osborn, Frederick, Population: An International Dilemma, The Population Council, 1958.
TO. Informative book on population increase and attempts to control it. Comprehensive, worldwide treatment.

Petersen, William, Population, The Macmillan Co., 1969.
TO. A textbook on demography intended for a college course. Suggestions for further reading. A good source book.

Planned Parenthood-World Population, When More Is Less, Planned Parenthood Federation of America, Inc., 1968.
PB, TO, PO-U. Subtitled "An Economic Examination of World Population and Family Planning Programs." Excellent charts, maps and tables. Well illustrated.

Population Bulletin, Periodical of the Population Reference Bureau, "Pockets of High Fertility in the U.S.," Population Reference Bureau, Vol. XXIV, No. 2, November 1968.

Price, Daniel O., ed., The 99th Hour: Population Crisis in the U.S., University of North Carolina Press, 1967.
TO, PO-U. A series of lectures given at the University of North Carolina on population policy. The population growth rate from the early 1900's to 1965. Discusses birth rate as related to age, illegitimacy, birth control, death rates, optimum populations from an economic viewpoint, increased growth rates and goals for population control programs, awareness of government involvement, premarital sex as a population control; the quality of the environment threatened by population growth.

Revelle, Roger, Can Man Domesticate Himself? reprinted from the Bulletin of the Atomic Scientists, February 1966, Harvard University, Center for Population Studies.
PB, ALL, PO-M, U. The population problem in perspective; world background; some of the controls that are being tried; the effect that population growth will have on life styles.

Revelle, Roger, The Changing Faces of the United States, reprinted from the Journal of the American Medical Association, August 22, 1966, Harvard University, Center for Population Studies.
PB, ALL. Population growth profile for the U.S. by birth and death rates--second half of 20th century.

Snow, C.P., State of Siege, Charles Scribner's Sons, 1969.
TO, PO-U. The relationship of growing population to the turmoil existing in the world today; some predictions of the effects of population growth in the future.

Spencer, J.E., and William L. Thomas, Jr., Cultural Geography, John Wiley and Sons, Inc., 1969.
PO-U and college. A textbook concerning man's growing ability to adapt the earth to his own ends.

Stockwell, Edward G., Population and People, Quadrangle Books, Inc., 1968.
TO. A general coverage of population problems considering the mortality, fertility, mobility, size, growth, composition, and distribution of population.

Thompson, Warren S., and David T. Lewis, Population Problems, McGraw-Hill Book Co., 1965.
TO, PO-U. Presents the most important facts relating to population; a college text in sociology.

Trewartha, Glenn T., A Geography of Population, John Wiley and Sons, 1969.
ALL, PO-U. An historical account of population distribution plus characteristics of present world population and distribution done according to biological and cultural characteristics. Charts, maps and tables.

U.S. Department of Health, Education and Welfare, Current Population Research, 1966, U.S. Government Printing Office, 1966.
PB, TO. Comprehensive listing of research projects identifying place, kind of research, grant and researcher.

U.S. Department of Health, Education and Welfare, Mortality, Excerpt from Vital Statistics of the United States 1966, Vol II, U.S. Government Printing Office, 1966.
PB, TO. Statistical. Natality, mortality, marriage tables supply background information by year, month, diseases, region and age. Reference source for demographic data on U.S.

U.S. House of Representatives, Committee on Government Operations, *Effects of Population Growth on Natural Resources and the Environment*, U.S. Government Printing Office, 1969.
PB, ALL. (Hearings before a subcommittee of the 91st Congress) Statements and letters by experts and leaders in the field. Appendices of related literature.

U.S. Office of Science and Technology Ad Hoc Group on Population Research, *The Federal Program in Population Research*, Parts I and II, U.S. Government Printing Office, 1969.
PB, ALL. Report by a special group to the Federal Council for Science and Technology on population research. Includes an inventory of ongoing population research in the Federal Government. Describes problem of population and suggested agency activities.

U.S. Senate, Committee on Government Operations, *Population Crisis*, Parts 1-4, U.S. Government Printing Office, 1967-68.
PB, TO. (Hearings before the subcommittee on Foreign Aid Expenditure of the 90th Congress) Valuable data but not easy to read.

Wallace, Robert, *A Dissertation on the Numbers of Mankind*, Augustus M. Kelley, 1809.
TO. A classic presentation of influences on population. Particular emphasis placed on food production, the numbers, and land involved as related to total population. Difficult reading.

Wrigley, E.A., *Population and History*, World University Library, 1969.
ALL. A general discussion of the science of demography and how it relates to history. Difficult reading for general public.

Wrong, Dennis H., *Population and Society*, Random House, 1969.
PB, ALL. Deals with the factors of migration, fertility and mortality and the role they play in population growth and distribution. For high school students.

Young, Louise B., ed., *Population in Perspective*, Oxford University Press, 1968.
TO, PO-U. Essays. Recommended as a source book; covers a diversity of population problems.

Zelinsky, Wilbur, *A Prologue to Population Geography*, Prentice-Hall, Inc., 1968.
PB, TO, PO-U. Why people are unevenly distributed on the surface of the earth, where they are, the impact of physical factors on cultural man. Cultural determinants of population numbers and distribution. Balance of people and resources. An introduction to the Ackerman system of population studies and the methods of studying population geography.

ECOLOGY

Anderson, Edgar, Plants, Man and Life, University of California Press, 1969.
PB, TO. How man has transported crops over the earth. A roster of the most important crop plants and their probable origins.

Andrewartha, H. G., Introduction to the Study of Animal Populations, University of Chicago Press, 1961.
TO. A study of population ecology, identifying the major factors of environment, density and dispersal; detailed analyses and practical applications.

Bardach, John, Downstream, Harper and Row, 1964.
ALL. An interesting, non-technical account of some of the basic properties and ecological relationships of flowing water. For the high school student and general reader.

Billings, W. D., Plants, Man and the Ecosystem, Wadsworth Publishing Company, Inc., 1970.
PB, ALL. A good introduction to ecology from the botanist's view; summaries of the various biomes; physical and chemical factors affecting plants and their distribution; excellent treatment of man in the ecosystem.

Boughey, Arthur S., ed., Contemporary Readings in Ecology, Dickenson Publishing Co., Inc., 1969.
TO. A collection of articles by different authors arranged under headings of taxonomy, evolutionary ecology, population ecology, and community ecology. Many articles use mathematical models and technical language. Not for the general reader.

Boughey, Arthur S., Ecology of Populations, The Macmillan Company, 1968.
PB, TO. Good summaries of many topics. People without background can "read around" the mathematics and gain much; valuable for teachers; some sections for above-average high school student.

Bresler, Jack, ed., Environments of Man, Addison-Wesley Publishing Co., 1968.
PB, TO. Man's ecosystem; the adaptations and genetic changes that physical factors have affected in humans; easy to read, wide in scope, covering anthropology, biology, and demography.

Christopher, John, No Blade of Grass, hardback: Simon and Schuster, paperback: Pocket Books, Inc., 1958.
PB, ALL. Fiction. Poses a deadly and dangerous environmental change and a possible solution. Useful for directing thoughts to new and different situations.

Cox, George, ed., Readings in Conservation Ecology, Appleton-Century-Crofts, 1969.
PB, ALL, TO. Articles well selected and readable; section on the ecosystem approach is good background; "The Conservation Ethic" by Aldo Leopold should be read by all interested persons; for teacher background and case studies, also for high school students.

Darling, F. Fraser, and John P. Milton, eds., Future Environments of North America, The Natural History Press, 1966.
ALL. Articles by eminent ecologists and planners on the pressures on the North American environment and ways to meet those pressures. Good for references on planning.

deBell, Garret, ed., The Environmental Handbook, Ballantine, 1970.
PB, ALL. Prepared for the First Environmental "Teach-In." A rich source of ideas and information in human ecology.

Dice, Lee R., Natural Communities, University of Michigan Press, 1968.
ALL. Concepts and methods of studying natural communities; assumes a background in biology. Complete and complex.

Eckardt, F. E., ed., Functioning of Terrestrial Ecosystems at the Primary Production Level, UNESCO, 1968.
PB, TO. The proceedings of the Copenhagen symposium in French and English, side by side, or with English summaries. Material is technical.

Ehrenfeld, David, Biological Conservation, Holt, Rinehart and Winston, 1970.
PB, ALL. An ecologist's viewpoint of present problems and possible solutions. Excellent case histories; full of useable information. Good introduction for the teacher not familiar with ecological principles and their application to environmental problems. Useable by high school students in both science and social studies.

Ehrlich, Paul, Population, Resources, Environment, W. H. Freeman and Co., 1970.
ALL, TO. A survey from viewpoints of ecology and social science. Appendices include demographic, nutritional, reproductive and ecological case study data. A sourcebook and primer; supplemental reading for upper grades.

Elton, Charles, The Ecology of Animals, Methuen and Co., Ltd., 1966.
ALL. Relations of animals to their environment; the factors influencing the organization of the animal community--the food chain, pyramid of numbers, food habitats, dual nature, vegetation and physical factors; problems and procedures in studying animal communities; economic factors.

Farb, Peter, Living Earth, Harper and Row, 1959.
ALL. An interesting and absorbing account of the life that abounds in the soil; the importance of the soil; understandable to the layman. Good discussion of symbiotic relationships.

Glass, David C., ed., Environmental Influences, The Rockefeller University Press, 1968.
TO. Fifteen papers from a two-day conference on environmental effects on behavior. Topics range from nutritional deficiencies and mental performance in childhood to the effects of cultural deprivation. Good for background information.

Goodman, Gordon T., R.S. Edwards, and J.M. Lambert, Ecology and the Industrial Society, John Wiley and Sons, 1965.
TO. Symposium of pollution problems related to and resulting from our industrial society. A British publication oriented to their problems.

Hafner, E.M., et al., Environmental Education 1970, Scientists' Institute for Public Information, 1970.
ALL. A guide to environmental studies, a brief description of some projects, their location, etc. The current thinking of selected experts and laymen on environmental problems.

Hawley, Amos H., Human Ecology, The Ronald Press Co., 1950.
TO. Man's interrelationship with his environment. Slightly outdated but still informative and significant for teachers; detailed and complete.

Henderson, Lawrence J., The Fitness of the Environment, Beacon Press, 1966.
PB, TO. Original copyright 1913. A classic that remains a provocative delineation of the uniqueness of the environment and its biological significance.

Johnson, Cecil E., ed., Social and Natural Biology, D. Van Nostrand Co., 1968.
ALL. Subjective analysis on ecology and biology; includes Leakey, Huxley, and Hardin, Steinbeck, Carson, Muir, and Thoreau, Lorenz and Eiseley. Recommended sourcebook for the biologist, naturalist and general reader.

Kates, R.W., and J.F. Wohlwill, eds., Journal of Social Issues, Vol. XXII, No. 4, "Man's Response to the Physical Environment," Acme Printing and Reproductions, October 1966.
ALL. The psychological effects of the environment on man. Interesting and timely in a rapidly developing field.

Kormondy, Edward J., Concepts of Ecology, Prentice-Hall, Inc., 1969.
PB, ALL. About ideas rather than things. For the concerned and interested laymen and general biology students. Good for biology teachers without formal background in ecology. A small book.

Kormondy, Edward J., Readings in Ecology, Prentice-Hall, Inc., 1965.
PB, ALL. Collection of articles up to 1962. Historical; leads to original sources. Recommended for biology teachers and school libraries.

Leeds, Anthony, and Andrew Vavda, eds., Man, Culture and Animals, American Association for the Advancement of Science, 1965.
TO, ALL. "The role of animals in human ecological adjustments." Contributed mostly by anthropologists and sociologists. The role of animals in human adaptation to environment. Biological and sociological dependencies. Background reading for teachers; illustrative of various stages in the evolution of agriculture.

Leopold, Aldo, A Sand County Almanac, Oxford University Press, 1949.
PB, ALL. A year on a Wisconsin farm, plus nature sketches, all with ecological undertones. Should be on the reading list of all high school students.

Lowry, William P., Weather and Life: An Introduction to Biometeorology, Academic Press, 1967.
ALL. For beginning students in this field; factual; technical. Its objective is to develop an understanding. A useful reference.

Marine, Gene, America the Raped, Simon and Schuster, 1969.
ALL. The destruction of the environment in the United States. The unbalance of nature. Readable.

Marsh, George P., Man and Nature, Harvard University Press, 1964.
ALL, TO. A 19th century exposé of human damage to the Earth. Of historical value.

McHarg, Ian, Design With Nature, The Natural History Press, 1969.
ALL. The historical degradation of our environment and the causes. The author's personal and professional concern for the environment permeates the entire text. Working techniques for better land use; for the school library.

Mitchell, John G., and Constance L. Stallings, Ecotactics: The Sierra Club Handbook for Environment Activists, Pocket Books, 1970.
PB, ALL. The problems man is causing in the environment and what is being done about the situation. Case studies. Of interest to pupils and teachers alike.

Odum, Eugene, *Ecology*, Holt, Rinehart and Winston, 1966.
ALL, TO. Good basic survey of ecology. Appropriate for some high school students. Good teacher reference.

Park, Robert, *Human Communities*, The Free Press, 1952.
ALL. The general aspects of urban communities, the ghetto, the gang, local communities in the metropolis, and their impact upon individual human development.

Ramparts, Editors of, *Eco-Catastrophe*, Canfield Press, 1970.
ALL. A collection of recent (1969-70) publications including Paul Ehrlich's "Eco-Catastrophe!" and others such as "Why the Population Bomb is a Rockefeller Baby."

Reid, Keith, *Nature's Network*, The Natural History Press, 1970.
ALL. Ecology for the general reader. Clear, concise and well illustrated. The relationships of man, plants, and animals are well presented. Recommended.

Rienow, Robert, and Leona Train Rienow, *Moment in the Sun*, Ballantine Books, 1969.
PB, ALL. The deteriorating quality of the American environment. Common sense reference.

Rockefeller, Laurance S., *Report to the President and to the President's Council on Environmental Quality*, The Citizens' Advisory Committee on Environmental Quality, August 1969.
ALL. Identifies some of the most obvious environmental issues, then recommends a course of action. Emphasizes the close relation or "interlocking" of the quality of the environment and population. Attention is given to problems of solid waste, urban recreation, selection of highway routes, trees in the city, burying utility lines, etc.

Russell, Edward John, *World Population and World Food Supplies*, Allen and Unwin, Ltd., 1954.
TO. Primarily a country-by-country analysis of population and food production, concluding with the exporters, the importers and the potential suppliers.

Sadleir, R.M.F.S., *The Ecology of Reproduction in Wild and Domestic Mammals*, Methuen and Co., 1969.
TO. Technical presentation of factors (i.e. light, temperature, population density) related to reproduction. Information useful in higher grades, use limited to teachers and advanced high school students.

Sears, Paul B., Lands Beyond the Forest, Prentice-Hall, 1969.
ALL. The evolutionary development of the great open areas of the earth and man's use of these areas from the beginning of man's existence up to and including the present time.

Shannon, Terry, About The Land, The Rain, and Us, Melmont Publishers, Inc., 1963.
PO-L. The important uses man makes of the soil. Includes soil information and soil conservation. Many illustrations. Useable in fourth grade.

Shephard, Paul, and Daniel McKinley, The Subversive Science--Essays toward an Ecology of Man, Houghton Mifflin Co., 1969.
TO. A collection of searching and provocative essays on the ecology of man with the central theme that the well-being of mankind is inescapably associated with a healthy, productive, and attractive environment.

Smithsonian Annual II, The Fitness of Man's Environment, hardback: Smithsonian Institution, paperback: Harper Colophon Books, 1968.
TO. Details relationships between students of the human ecosystem and planners and architects in the attempt to put the problem of man in his environment in proper perspective.

Storer, John H., The Web of Life, The New American Library, 1956.
PB, ALL. A study of the interrelationships of living things; for those interested in the use of soil and water, our forests and wildlife, and how living things depend on one another. Stresses the organic complexity of biotic systems. Recommended for the school library.

Theodorson, George A., ed., Studies in Human Ecology, Harper and Row, 1961.
ALL, TO. Readings which bring together the viewpoints of geographers and sociologists; historical perspective; excellent bibliographies.

Vayda, Andrew P., Environment and Cultural Behavior, The Natural History Press, 1969.
PB, TO. 23 studies focusing on the relationships between cultural behavior and environmental phenomena. Scholarly. Presents material for teachers of the social and natural sciences.

GENETICS, EVOLUTION, BIOLOGY

Adams, Fred T., The Way to Modern Man, Teachers College Press, Columbia University, 1968.
ALL. The techniques by which modern man evolved. Fossils, their dating and reliability. Behavior of other higher primates discussed as possible corollaries. "Pre-man" is traced through a speculative evolution into *Homo sapiens*. Recommended for students and teachers.

Ardrey, Robert, African Genesis, Dell Publishing Co., 1961.
PB, TO, PO-U. "A personal investigation into the animal origins and nature of man." Readable and informative.

Ardrey, Robert, The Territorial Imperative, Delta Book Co., 1969.
PB, ALL. A controversial study of man's evolutionary nature. Animal origins, territoriality practices, and man. A dramatic and generally accurate picture of human evolution.

Bates, Marston, Man in Nature, Prentice-Hall, Inc., 1964.
PB, ALL. From the series Foundation of Modern Biology. Short, well written; develops understanding of the content, state and direction of modern biology. Recommended. Not too technical.

Bigelow, Robert, The Dawn Warriors, Little, Brown, and Co., 1969.
ALL. Evolutionary development from prehistory to present with wars as the frame of reference. A bio-sociological study of evolution. Extends a hope for peace.

Bleibtreu, Hermann K., Evolutionary Anthropology, Allyn and Bacon, Inc., 1969.
PB, TO. A reader in human biology for college level; 25 theoretical statements and research reports dealing with human evolution and human variation by knowledgeable authors. Articles answer pertinent questions about past evolution of man and forces still acting on the species.

Boyd, William C., and Isaac Asimov, Races of People, Abelard-Schuman Limited, 1955.
ALL, PO-L, M. Points out the fallacy of many popular conceptions about race, e.g., inferior races and superior races, by explaining basic biological concepts. Tells of the use of blood grouping in tracing migration of races and their geographic distribution. Readable.

Brewbaker, James L., Agricultural Genetics, Prentice-Hall, Inc., 1964.
PB, TO. Technical description of various topics presented with examples from agricultural species to explain each phenomenon. A discussion of parasitism and symbiosis in agricultural plants and animals; possible genetic advances through selection. Recommended as reference for high school teacher.

Cairns, John, Jr., Population Dynamics, Rand McNally and Co., 1966.
PB, TO, PO-U. A biological viewpoint. Most examples refer to animal populations. Birth and death rates, longevity, reproductive rates, predation, competition, specialization, the Malthusian principle, the general requirements of life, variation, factors which limit populations, acclimatization, population fluctuations, succession and climax, food chains, energy, and ecosystems. Graphs and photos. Excellent material to supplement biology and life science courses.

Carter, C.O., Human Heredity, Penguin Books, 1962.
PB, ALL. Explains the difference between inheritance and environment, genes and chromosomes. Deals with genetics as it affects such things as height, weight, intelligence, mutations, etc. Useful for high school students.

Clark, Grahame, World Prehistory--A New Outline, Cambridge University Press, 1969.
PB, ALL. Surveys the prehistoric period of man and the world. Pictures, maps, bibliography. A good, sequential introduction to pre-literate man.

Clegg, E.J., The Study of Man: An Introduction to Human Biology, American Elsevier Publishing Co., Inc., 1968.
ALL. Covers the evolution of man and his relationship to his environment. Thorough and factual. Graphs.

Cohen, Yehudi A., Man in Adaptation: The Biological Background, Aldine Publishing Co., 1968.
ALL. Essays which serve as an introduction to physical anthropology, archeology, and linguistics from the point of view of adaptation.

Daedalus, Journal of the American Academy of Arts and Sciences, "Evolution and Man's Progress," American Academy of Arts and Sciences, Vol. 90, No. 3, Summer 1961.
TO. Papers by various experts in their fields. Discussion of the human genotype, what is happening to it and what may happen to it in the future. Cultural evolution of man discussed by psychologists, anthropologists, sociologists. Thorough, interesting, a broad viewpoint.

deBeer, Sir Gavin, Atlas of Evolution, Nelson and Sons, 1964.
PO-M, U. Well-illustrated general treatment of evolution. Recommended as a reference for high school biology students. Charts, photos, cycles, species, examples.

Dobzhansky, Theodosius, Heredity and the Nature of Man, Harcourt, Brace and World, 1964.
TO, PO-U. The origin of life, the nature of individual differences and the importance of heredity and environment. Mentions the genetic dangers of helping the unfit to survive and the moral dangers of not. The differences of races; some of the risks of genetic mutations caused by X-ray, nuclear fallout and other chemicals dumped into the air. Recommended for teachers.

Dobzhansky, Theodosius, Mankind Evolving, Yale University Press, 1969.
TO. Man as a product of evolution. The interdependence of the two components of human evolution: the biological, or organic; and the cultural, or super-organic, and how they function for man's adaptation to his environment and his control of it. Recommended for teachers.

Dunn, L.C., Heredity and Evolution in Human Populations, Harvard University Press, Cambridge, 1967.
TO. General summary of information about heredity, evolution, and population genetics as applied to the human species. Race formation and isolated communities discussed. Recommended for teachers.

Eiseley, Loren, The Immense Journey, Vintage Books, Random House, Inc., 1957.
PB, ALL. Philosophic essays which explore the paths through the past which have led to man, and man's discovery of his evolutionary process. Easily read, imaginative prose.

Etkin, William, Social Behavior from Fish to Man, University of Chicago Press, 1964.
TO. The principles of animal social behavior from the biological and evolutionary viewpoints; implications for understanding man's behavioral system. Recommended for teachers.

Grosch, Daniel S., Biological Effects of Radiations, Blaisdell Publishing Co., 1965.
PB, TO. Surveys research on the effects of radiation on the cellular, tissue, organ, organism, and ecosystem levels of biological organization. Genetic alteration, embryological malformation, pathology, pest control, and food preservation are discussed. Some chapters are overly technical for general reading.

Hafez, E.S.E., The Behavior of Domestic Animals, Williams and Wilkins Co., 1962.
TO, PO-U. Behavioral habits of a number of the domestic species explained in detail. Of use for ideas as to types of behavior in experimental animals which might be tested in the classroom. Recommended for high school biology or agriculture students.

Halacy, D.S., Jr., Cyborg--Evolution of the Superman, Harper and Row, 1965.
ALL, TO. Cyborg--man plus machine. The machine extending and multiplying man's capabilities; extrapolates beyond the current rudimentary levels to a startling and disquieting future. At what point is human identity lost? Recommended for teachers.

Hardin, Garrett, Nature and Man's Fate, Rinehart and Co., Inc., 1959.
TO. Historical development of genetics and eugenics--both the factors and the implication. Somewhat dated.

Harrison, Richard J., and William Montagna, Man, Appleton-Century-Crofts, 1969.
TO. Man is described and placed in nature within a framework that clearly delineates the complexities that are involved in even simple functions. Clear presentation of factual materials. Excellent photographs. An excellent source book. Humor and understandable definitions of difficult scientific concepts make this a tool for laymen.

Hawkes, Jacquetta, Man on Earth, Random House, 1955.
ALL. A mixture of theorizing and facts. Deals with evolution of animals and man. Hints that man's appearance on earth was not ordinary evolution.

Hoebel, E. Adamson, Anthropology: The Study of Man, McGraw-Hill Book Co., 1968.
ALL. From historical cultures up to modern-day culture. The concept of culture, the evolution of man and culture from both a biological and anthropological point of view. Recommended as a reference book.

Huxley, Julian, Evolution in Action, Harper and Row, 1953.
PB, ALL. A study of evolution beginning with the first known type of life and tracing its development up to the complex system of man. Good background material.

LaBarre, Weston, The Human Animal, University of Chicago Press, 1954.
PB, ALL, PO-U. Uses a multidisciplinary approach to man's evolution and culture. Background for teachers.

Lee, Richard B., and Irven DeVore, eds., Man the Hunter, Aldine Publishing Co., 1968.
TO, PO-U. A collection of data about early and modern-day man in the hunter-gatherer culture. Many contributors report archaeological and ethnological findings. Topics include economy and ecology, adaptive processes, social and territorial organization, and demography and population ecology considerations. Valuable resource.

Lerner, I. Michael, Heredity, Evolution and Society, W.H. Freeman, 1968.
TO. Comprehensive text concerning the history of evolution, the parts of a cell, gene interaction, population genetics, natural selection and mutations. Requires a knowledge of genetics.

Levins, Richard, Evolution in Changing Environments, Princeton University Press, 1968.
TO. Discusses theories and models, strategies of adaptation, the theory of the niche, the species in space, the genetic system, and micro- to macro-evolution. Technical background needed in ecology, genetics, evolutionary theory, and mathematics.

Lorenz, Konrad, On Aggression, hardback: Harcourt, Brace and World, Inc.; paperback: Bantam Books, Inc., 1966.
PB, ALL. Basic descriptions and interpretations of aggression and species-preserving behavior. Compares man's behavior with that of lower animals and theorizes that all cultural evolution is biologically predetermined.

Mason, Ian L., A World Dictionary of Breeds, Types and Varieties of Livestock, Agricultural Bureau, Edinburgh, Scotland, 1957.
TO. A technical reference explaining the genetic crosses made to develop the modern breeds of livestock. Written as a dictionary; lists which breeds are crossed at various matings to produce the desired hybrid. Too specific to be of use to the public school teacher.

Mead, Margaret, et al, eds., Science and the Concept of Race, Columbia University Press, 1968.
TO. A collection of papers and discussions primarily concerned with genetics. Creates scientific terminology for all features of race issues. Scholarly.

Medawar, P.B., The Future of Man, Mentor Books, 1959.
PB, TO. Six lectures on the genetic future of man. Nontechnical language. Discusses man's fitness for the environment and means of improving his genetic endowment; the relationship between intelligence and fertility.

Mettler, Lawrence E., and Thomas Gregg, Population Genetics and Evolution, Prentice-Hall, Inc., 1969.
PB, TO. Discusses the basic principles of genetics and theories of Darwin. Emphasizes the experimental side of population genetics. Explains interactions of populations and biotic communities.

Moody, Paul Ames, Genetics of Man, W.W. Norton, 1967.
TO. College-level textbook style. Comprehensive. Includes mutations, inbreeding, eugenics, differential fertility and genetic counseling; appropriate for population studies. Recommended for high school biology teachers.

Morris, Desmond, The Naked Ape, McGraw-Hill, 1967.
TO, PO-U. "Overcrowding will produce social stresses and tensions that will shatter our community organizations long before it starves us to death." Depicts man's behavior as having origins in evolution. Recommended for teachers and high school students.

Mumford, Lewis, The Transformations of Man, Harper and Row, 1956.
PB, TO. College level. Traces man through the various stages of his development.

Osborn, Frederick, The Future of Human Heredity, Weybright and Talley, Inc., 1968.
TO, PO-U. Basic introduction to eugenics from a historical perspective; recommended for high school students and teachers.

Ravielli, Anthony, From Fins to Hands, The Viking Press, 1968.
PO-M. Traces structure and development of the human hand. Variations graphically depicted. Recommended for junior high.

Reed, Sheldon C., Counseling in Medical Genetics, W.B. Saunders Co., 1963.
TO. Many types of genetic problems presented with references to the literature about the problems. Not profound but provides information useful in classwork. Long list of "rare traits" together with bibliographic references. Recommended for teachers.

Roslansky, John D., ed., Genetics and the Future of Man, Appleton-Century-Crofts, Inc., 1966.
TO. A record of the discussion on genetics at the Nobel Conference at Gustavus Adolphus College in 1965. Diverse scope gives a comprehensive picture of the future genetics of man, including implications of environment, population control, and religion.

Sauer, Carl O., Agricultural Origins and Dispersals, American Geographical Society, 1952.
ALL. Discusses the development of agriculture from a sociological, anthropological view rather than a biological. Sections on man as the dominant organism in his environment, and techniques of developing agriculture in the Old and New worlds.

Spuhler, J.N., ed., Genetic Diversity and Human Behavior, Aldine Publishing Co., 1967.
TO. A collection of lectures. Need for identification and study of genetic factors of human behavior emphasized. Specialized teacher reference.

Stern, Curt, Principles of Human Genetics, W.H. Freeman and Co., 1960.
TO, PO-U. Textbook. Deals with those qualities which distinguish human beings from non-human beings. Emphasis on the way similarities and differences are transmitted from generation to generation. Each chapter has problems to solve and references. Presumes reader has a background in genetics.

Ucko, P.J., and G.Y. Dimbleby, Domestication and Exploitation of Plants and Animals, Aldine Publishing Co., 1969.
TO, PO-U. College text or reference. Gives background and speculative history of many domestic breeds of animals and plants. Suggests methods by which certain characteristics may have evolved but doesn't go into genetics. Man's uses of these organisms featured.

Wallace, Bruce, *Genetic Load*, Prentice-Hall, Inc., 1970
TO. Develops concept of hidden heritable disabilities. Explores mathematics involved and speculates on the frequency of existing polymorphism. Technical.

Wallace, Bruce, *Topics in Population Genetics*, W.W. Norton, 1968.
TO. Comprehensive, in-depth treatment of population genetics. Requires a background in general genetics. Recommended for biology teacher or college student.

Winchester, A.M., *Genetics--A Survey of the Principles of Heredity*, Houghton, Mifflin Co., 1966.
TO. Textbook. Beyond most high school students; good reference for teachers. Many genetic conditions of man are described and pictured.

Zeuner, Frederick E., *A History of Domesticated Animals*, Hutchinson and Co., 1963.
TO, PO-U. College level. Origins of man's domestic livestock. Dating methods, location of discovery sites given in some detail. Probable ecological role of each species discussed as well as relationship with man at his particular cultural level.

MEDICAL SCIENCES

Dubos, Rene, et al, Health and Disease, Time-Life Books, 1968.
ALL. Several chapters pertain directly to the population problem. Discusses the great plagues, diseases due to protein and vitamin deficiency, and air and water pollution in New York City. Includes a chart on life expectancies in various periods of history. Excellent photographs.

Jelliffe, Derrick B., Child Nutrition in Developing Countries, U.S. Department of Health, Education and Welfare, U.S. Government Printing Office, 1969.
PB, TO. Outlines general principles and suggests guidelines for child nutrition. Recognizes that each situation requires particularized knowledge, ingenuity, sympathy, and imaginative understanding to envisage a course of acion that is relevant to local priorities, realistic in terms of available resources, and can be implemented with the community's understanding, support, and participation.

Mitchell, Helen B., et al, Cooper's Nutrition in Health and Disease, J.B. Lippincott Co., 1968.
TO. A classic. A comprehensive survey of the principles of nutrition and their application to normal and therapeutic needs. Additional emphasis to the underlying biochemical and physiological factors as they affect the restoration and maintenance of good health. Sociological and psychological factors on both a national and worldwide basis are considered.

National Health Education Committee, Facts on the Major Killing and Crippling Diseases in the U.S. Today, National Health Education Committee, Inc., 1966.
PB, TO. A statistical eulogy of "how medical research has paid off" and a statistical indictment of government and people for investing to a much greater extent in other areas. Provides quantities of information and complete reference lists to establish that view.

Rosenberg, Charles E., The Cholera Years, University of Chicago Press, 1962.
PB, TO, PO-U. Historical review of the spread of cholera in the U.S. (focus on New York City) in 1832, 1847, 1866. Vivid description of the filth present in New York and the ignorance associated with the medical profession during this era. Excellent study--interesting reading.

Sinacore, John S., Health, A Quality of Life, Macmillan, 1970.
TO. Advances made in health sciences. Vital health issues of today such as automobile safety, drug use and abuse, abortion, and food faddism. Sex values and the nature of human sexuality. Also deals with pollution.

Sunderlin, Sylvia, ed., *Nutrition and Intellectual Growth in Children*, Association for Childhood Education International, 1969.
PB, TO. A series of papers ranging from hunger in the U.S. to international malnutrition and its effects on the intellect. Closes with a call for education toward an environmental balance.

U.N. Conference, *Health and Nutrition*, U.S. Government Printing Office, 1964.
PB, TO. U.S. papers presented at the U.N. Geneva Conference in 1963 on the application of science and technology for the benefit of the less developed areas. Three broad areas: planning for health services, the control of diseases, and research and planning. Presents a philosophical and sometimes technical overview of the problems of health and nutrition and the direction of their solution.

U.N. Food and Agriculture Organization, (by Jean A.S. Ritchie), *Learning Better Nutrition*, UNIPUB, 1967
TO. A well-illustrated presentation of what it takes to develop a better nutrition program. Cites successful programs in a variety of countries.

U.S. Department of Health, Education and Welfare, *Facts of Life and Death*, U.S. Government Printing Office, 1967.
PB, ALL. A statistical report assembled to answer frequently asked questions about vital and health statistics for the U.S. Graphs and tables. Primarily a reference.

U.S. Department of Health, Education and Welfare, *Infant and Perinatal Mortality in the United States*, U.S. Government Printing Office, 1965.
PB, TO. Charts, tables and text are used to clarify events of the 1950's, when the infant mortality rates leveled off, and to define once more the high risk groups of the population.

U.S. Department of Health, Education and Welfare, *U.S. Life Tables by Causes of Death 1959-61*, U.S. Government Printing Office, 1968.
PB, TO. Information presented in tabular form with a full explanation as an introduction. Entries are in statistical form rather than tally form.

NATURAL RESOURCES

Abrahamson, Dean E., Environmental Cost of Electric Power, Scientists' Institute for Public Information, 1970.
PB, TO. A thorough exploration of the effects on the environment of various methods of power production.

Alexander, Peter, Atomic Radiation and Life, Penguin Books, Inc., 1957.
PB, TO. Aspects of the physics of radiation and the chemical effects and biological changes produced.

Altschul, Aaron M., Proteins: Their Chemistry and Politics, Basic Books, Inc., 1965.
TO. "The nature of proteins and their significance in building a stronger rising generation." The politics of feeding a hungry world. Selected bibliography with each section.

American Association of School Administrators, Conservation Education in American Schools, National Education Association, 1951.
TO. Dated, basically sound. Need for conservation, methods of presentation, use of A-V materials.

American Association of School Administrators Commission on Conservation, Conservation--In the People's Hands, American Association of School Administrators, 1964.
ALL. Emphasizes the responsibility of individual citizens to take positive steps toward using natural resources in a more effective manner.

American Society of Agronomy, Food for Billions, American Society of Agronomy, 1968.
PB, ALL, PO-U. Papers presented at the ASA annual meeting, 1967, covering the world food situation and the position of the United States, the agencies involved and the challenges to our educational institutions.

Ames, Gerald, and Rose Wyler, Food and Life, Creative Educational Society, Inc., 1966.
PO-M, U. Story of food; the physiological needs of man; passage of energy from the sun, to plants, to animals, to the soil. Discussion of food groups; the historical origins of the great food species of animals and cereals. The problems of increasing crop yield to combat world hunger. Many illustrations, diagrams, graphs.

Argonne Universities Association, Universities, National Laboratories, and Man's Environment, U.S. Atomic Energy Commission, Division of Technical Information, 1969.
PB, TO. The AUA Conference of July 1969. The need for man to understand and appreciate his environment. Areas of responsibility, primarily the role of our schools, specifically the universities, and the need for collaboration to solve environmental problems.

Annual Report on Public Law 480, *Food for Peace*, U.S. Government Printing Office, 1968.
PB, TO. Wide-scoped report on the use of agricultural surpluses in combating hunger and malnutrition, generally oriented toward self-improvement in foreign countries.

Bardach, John, *Harvest of the Sea*, Harper and Row, 1968.
TO, PO-U. Latest oceanographic information on man's efforts to harvest useful food and materials from the sea. Background information on the ocean. Includes a discussion of waves, tides, currents, temperature, salinity, and sediments. Discussion of the latest research vessels, instruments and techniques; a scientific appraisal of the sea's potential as a source for food. Recommended.

Barnett, Harold J., and Chandler Morse, *Scarcity and Growth*, Johns Hopkins Press, 1967.
TO. The economics of natural resource availability. Accepting less per capita or maintaining fewer people as solution. Charts and statistics. Contemporary views on social aspects of resources.

Behrman, A.S., *Water is Everybody's Business*, Doubleday and Co., Inc., 1968.
PB, TO, PO-M, U. Subtitled "The Chemistry of Water Purification." Full treatment of current water conservation and purification problems. Plea for desalinizing sea water with solar stills. Convincing and informative. Recommended reading appendix. Valuable in the high school for quick reading, thorough, non-technical background.

Berger, Kermit C., *Introductory Soils*, Macmillan Co., 1965.
TO, PO-U. Introduction to soils from soil constituents to practices; discussion of the elements found in soils and how these affect plant growth.

Borgstrom, Georg, *The Hungry Planet*, Macmillan Co., 1967.
TO, PO-U. The quality of diet as opposed to quantity. What other nations have done, the role of U.S. surpluses and other political and economic implications of feeding the people of the world adequately.

Borgstrom, Georg, *Too Many*, Macmillan Co., 1969.
ALL, PO-U. A basic work on the problems created by numbers of people, past, present and future.

Brady, Nyle C., ed., *Agriculture and the Quality of our Environment*, American Association for the Advancement of Science, 1967.
TO. Collection of papers dealing with effects of air quality, water quality and soil pollution on agriculture. The problems of human and animal wastes.

Brown, Lester R., Seeds of Change: The Green Revolution and Development in the 1970's, Praeger Publishers, 1970.
TO. Development of new varieties of wheat and rice. Outlines the potential of new technology to close the gap between food production and consumption.

Callison, Charles H., ed., America's Natural Resources, Ronald Press Co., 1967.
ALL. Discusses each of our major basic natural resources--soil, water, land, forests, wildlife, and fish. Delineates the main problems, what has been done, and what still needs to be done. Calls for sound management.

Camp, Thomas R., Water and Its Impurities, Reinhold Publishing Co., 1963.
TO, PO-U. The viewpoint of a consulting engineer concerned with sanitary engineering. A comprehensive text and reference about the chemical, physical and biochemical properties of water. How water quality problems relate to the environment. Technical. Recommended for the high school science teacher.

Campbell, Thomas H., and Robert O. Sylvester, eds., Water Resources Management and Public Policy, University of Washington Press, 1968.
TO. Presents a variety of issues to be considered in the management of water resources. Concludes with a survey of Washington Water Law.

Carlson, Carl W., and Bernice W. Carlson, Water Fit to Use, The John Day Company, 1966.
ALL, PO-M. Four parts: (1) matter dissolved in water, includes desalting processes; (2) water pollution; (3) treatment of polluted water; (4) national water problems. Recommended for grades 7-8.

Carson, Rachel, The Sense of Wonder, Harper and Row, text 1956, photos 1965.
ALL. First appeared under the title "Help Your Child to Wonder." Develops an appreciation for the natural world. An excellent short book expressing a beautiful philosophy of life. Recommended reading for all adults who deal with youth.

Chisholm, Brock, Prescription for Survival, Columbia University Press, 1957.
ALL. Advances the thesis that to save himself in this atomic age man must change fundamentally. Outlines areas where change must be effected.

Ciriacy-Wantrup, S.V., and James J. Parsons, eds., Natural Resources: Quality and Quantity, University of California Press, 1967.
TO. Collection of papers exploring the multidimensionality of natural resources and their use by man: genetic resources, agricultural productivity, management of ocean and wildland resources, air and water pollution, conservation philosophy, the procecesses of formulating policies, and planning and management methodology.

Claiborne, Robert, Climate, Man, and History, W.W. Norton and Co., Inc., 1970.
ALL, PO-U. Non-technical survey of the earth's climate as it applies to the development of man and his civilizations; presents conflicting points of view in a thought-provoking way.

Clepper, Henry, ed., Careers in Conservation, Ronald Press Co., 1963.
ALL, PO-U. Entirely devoted to descriptions of opportunities in the conservation field. Three extensive appendices cover universities and colleges offering related courses, publications, and organizations. Dated.

Clepper, Henry, ed., Origins of American Conservation, Ronald Press Co., 1966.
TO. Collection of lectures by specialists in their fields of the conservation movement. Articles on each of the recognized major fields of conservation such as soil, water, range and forage, forests.

Cochrane, Willard, The World Food Problem, Thomas Crowell Co., Inc., 1969.
PB, ALL. Defines and describes the world food problem in historical perspective, analyzes the problem in the context of the basic forces involved--political, social, economic, technological and demographic; discusses the kinds of action required by both developed and developing countries to solve the problem permanently. Non-technical, well organized.

Colorado Committee for Environmental Information and St. Louis Committee for Environmental Information, Nuclear Explosives In Peacetime, Scientists' Institute for Public Information, 1970.
TO. Areas of use, hazards, problems, cost, and other factors of nuclear explosives.

Cote, Patricia, People, Food and Science, Ginn and Co., 1968.
TO, PO-U. Nutrition, historic and present. Neglects overpopulation. Includes teacher's manual and student's manual in addition to text. Optimistic.

Coyle, David Cushman, Conservation: An American Story of Conflict and Accomplishment, Rutgers University Press, 1957.
TO. General conservation policy--origins and practices, from Gifford Pinchot to the 1956 presidential campaign.

Daedalus, Journal of the American Academy of Arts and Sciences, "America's Changing Environment," American Academy of Arts and Sciences, Vol. 96, No. 4, Fall 1967.
PB, TO. Series of essays on the changes and the conditions brought about by changes in our environment. A resource-type collection. Not general reading.

Dalrymple, Dana C., Technological Change in Agriculture, U.S. Department of Agriculture, 1969.
PB, TO. Agricultural technology's adoption, rejection, influence on employment, social and political implications, ecological effects, national and international implications; critical evaluation of all the foregoing topics. Technical. Recommended for teachers.

Dasmann, Raymond F., Environmental Conservation, John Wiley and Sons, 1968.
ALL, PO-U. On ecology, pollution effects, and political implications of conservation. Many diagrams and graphs. A good reference.

Donahue, Roy, Our Soils and Their Management, Interstate Printers and Publishers, Inc., 1961.
TO. Basic background for the beginning soil scientist or botanist. The soil itself and its management according to use of the land.

Drogat, Noel, The Challenge of Hunger, Newman Press, 1962.
TO. Advances the view that the resources and knowledge exist to feed the world population now and for a long while, given current population growth rates. However, all the world is not being fed now and cannot be fed in the future without comprehensive planning on a world scale. Presents case for non-interference with population rates.

Dumont, René, and Bernard Rosier, The Hungry Future, Frederick A. Praeger, Inc., 1969.
TO. Dire predictions, and world-wide solutions which are varied and complex. Condemnation of any single panacea.

Elliott, Alfred M., and Bruce R. Woeller, Basic Biology, Appleton-Century-Crofts, Inc., 1970.
ALL. A textbook carefully integrated around the main theme of organic evolution without overwhelming detail.

Fisher, James, et al., Wildlife in Danger, The Viking Press, 1969.
ALL. Excellent illustrations, extensive coverage, includes technical information. A good resource and browsing book.

Foster, Albert B., Approved Practices in Soil Conservation, Interstate Printers and Publishers, Inc., 1964.
TO. Details of various methods employed to alleviate different erosional conditions. For teachers and college students.

Freeman, Orville L., World Without Hunger, Frederick A. Praeger, Inc., 1968.
TO. The need for world cooperation in the area of agriculture. The U.S. position developed from both humanitarian and security points of view. Stabilization of population and increased food production are emphasized.

Gabrielson, Ira N., Wildlife Conservation, The Macmillan Co., 1959.
ALL. The interdependence of conservation programs as well as specific problems of certain groups of wildlife.

Gates, Richard, The True Book of Conservation, Childrens Press, 1959.
PO-L. Basic conservation, brightly illustrated, with a second or third grade vocabulary.

Gaud, William S., The Green Revolution: Accomplishments and Apprehensions, Agency for International Development, 1968.
PB, TO. An address delivered before the Society for International Development. New crops and techniques produce the accomplishments and the need for great general commitment of aid from developed to developing nations.

George Washington University, Shoreline Recreation Resources of the United States, U.S. Government Printing Office, 1962.
PB, ALL. A report to the Outdoor Recreation Resources Review Commission covering wants, needs, resources, current and future institutional arrangements, suggested policies and programs of shoreline recreation. Includes a state-by-state inventory of physical and administrative aspects.

Gerard, Ralph W., ed., Food for Life, University of Chicago Press, 1952.
TO. A broad overview of nutrition. A readable survey of the essentials of nutrition.

Hull, Seabrook, The Bountiful Sea, Prentice Hall, Inc., 1964.
TO, PO-U. Potential uses of the sea, suitable for general reader. Man's success in utilizing the sea depends upon the excellence and economics of the technology involved. Suggests private enterprise could probably reduce costs below government levels.

Hutchinson, Joseph, ed., Population and Food Supply, Cambridge University Press, 1969.
TO. Scholarly, non-technical essays examine the impact of growing populations on food availability. Specific topics included: demographic trends, human fertility patterns, economic growth related to population and food supplies, famine, dietary needs, available food supplies, and the resources of agriculture.

The Izaak Walton League of America Conservation Education Committee, Guidelines to Conservation Education Action, The Izaak Walton League of America, 1966.
PB, TO. Historical approach to conservation education; identifies the needs of conservation education and is particularly helpful in making specific suggestions for action both by groups and by individuals.

Janick, Jules, et al, Plant Science, W. H. Freeman and Co., 1969.
ALL. Crop science in relation to agronomy, horticulture, forestry, and agricultural economics. A thorough view of agriculture with emphasis on biological, physical, social and economic factors. Graphs and illustrations. Recommended for the teacher.

Joffe, Joyce, Conservation, The Natural History Press, 1970.
ALL, PO-U. World conservation including extinction of rare wildlife, ways of preventing extinction, zoos, nature reserves and parks. Principles developed with regard to animal groups are applied to man and the solutions of his population problems today. Well illustrated; diagrams colorful and clear. Could be used as introduction to population problems.

Krochmal, Arthur, et al, A Guide to Medicinal Plants of Appalachia, U.S. Department of Agriculture, U.S. Government Printing Office, 1969.
PB, ALL. Illustrated descriptions of 126 medicinal plants of Appalachia--where plants grow, parts used, etc. Glossary of pharmaceutical and botanical terms is excellent. Plates not in color.

Krutch, Joseph, Grand Canyon: Today and All Its Yesterdays, William Sloane Associates, 1957.
PB, TO. Flora, fauna and geologic structure of the canyon with relation to its past.

Laffin, John, The Hunger to Come, Abelard-Schuman, 1966.
ALL. Deals with real people rather than statistics. A good analysis of population and food supply. Recommended for teachers and high school students.

Landsberg, Hans H., Natural Resources for U.S. Growth, Johns Hopkins Press, 1964.
PB, TO, PO-U. A condensation of a more detailed study entitled Resources in America's Future: Patterns of Requirements and Availabilities, 1960-2000, by Hans H. Landsberg, et al. An excellent source book. Contains charts and graphs, and gives a good analysis of natural resource adequacy.

Landsberg, Hans H., et al, Resources in America's Future: Patterns of Requirements and Availabilities, 1960-2000, Johns Hopkins Press, 1963.
TO. Massive and detailed analysis. Text, tables, charts, graphs show specific and general trends both by users and by resource. Both appended and indexed. Recommend Landsberg's condensation, Natural Resources for U.S. Growth.

Laycock, George, The Alien Animals, The Natural History Press, 1966.
ALL, PO-M, U. The development of new populations of "introduced species" and their impact on their new environment. Recommended for middle grades and beyond.

Leopold, Aldo, Game Management, Charles Scribner's Sons, 1933, 1961.
TO. A classic handbook for this field. Studies of methods and techniques for particular animal populations. Studies applicable in many areas but directed to game management.

Leopold, Luna B., A Primer on Water, U.S. Government Printing Office, 1960.
PB, TO, PO-M, U. Non-technical booklet dealing with the use and control of water. Multiple copies recommended for any classroom from grade five up.

Leopold, Luna B., et al, Water, Life Science Library, Time-Life Books, 1968.
ALL. The hydrologic cycle, and underground water supplies. Water pollution, distribution, purification, and desalinization. Excellent photographs. Recommended.

Linduska, Joseph P., ed., Waterfowl Tomorrow, U.S. Government Printing Office, 1964.
ALL. Illustrates both natural and man-made habitat for waterfowl. Deals with problems of insecticides, oil pollution, acid mine water, silting, lead poisoning, etc. Excellent source book. Recommended for teachers and secondary students.

Lubell, Winifred and Cecil, Green is for Growing, Rand McNally and Co., 1964.
ALL, PO-M. A variety of interesting and unusual plants in familiar terms with excellent illustrations. A good index, rhythmic prose and poetry.

Maits, Buckley, Natural Resources of Delaware, Delaware State Soil and Water Conservation Commission, 1966.
PB, ALL. The earth's origin and evolution. A discussion of soil, and the formation of minerals. A reference for background information on Delaware's natural resources.

Mann, Martin, Peacetime Uses of Atomic Energy, The Viking Press, 1961.
TO, PO-U. Outdated description of the peacetime uses of atomic energy. A technical, though not unreadable, explanation of the operation of nuclear reactors. Well illustrated.

Marx, Wesley, The Frail Ocean, Coward-McCann, Inc., 1967.
TO. Many of man's efforts to devastate our ocean boundaries. A non-technical call for public awakening.

Mattison, C.W., and Joseph Alvarez, Man and His Resources, Creative Educational Society, Inc., 1967.
ALL. Deals with man's unwise use of natural resources which has led to the depletion of same. Need for conservation of all resources shown. Recommended for those with little science background.

McCormick, Jack, The Life of the Forest, McGraw-Hill Book Co., Inc., 1966.
PO-M, U. An extensive picture of the processes which occur in forest communities in many different parts of the world. Color photographs and charts of the animals and plants of the forest community. For use in life science or biology classes.

Mead, Margaret, et al, Hunger, Scientists' Institute for Public Information, 1970.
PB, TO. Hunger in the U.S. and in the world. Immediate community and national action needed to meet the emergency and prevent its recurrence. Primary questions of ecological imbalance considered. A series of short articles by well-known people designed with a practical, scientific approach.

Melrose, Mary, et al, Raindrops and Muddy Rivers, National Wildlife Federation, Inc., 1953.
PB, PO-L, M. Booklet devoted to water conservation problems and directed solely to elementary school children. Plainly illustrated; for supplemental use.

Mickelsen, Olaf, Nutrition, Science and You, Scholastic Book Services, 1964.
PB, PO-M, U. Human nutritional requirements; functions of nutritional elements; consequences of deprivation. Recommended for middle grades.

Milne, Lorus, and Margery Milne, Water and Life, Atheneum, 1967.
ALL, PO-U. A non-technical consideration of man's concepts, uses and abuses of water historically and geographically. Importance of water; the water cycle. Possible solutions to problems of water as a limited resource.

Moseman, Albert H., ed., Agricultural Science for the Developing Nations, American Association for the Advancement of Science, 1964.
TO. Agricultural conditions in emerging nations in terms of systems, plant and animal agriculture and research toward improvement. Need for change in philosophy of agricultural research on the national level. Tradition and cultural practices must be dealt with. Institutional revision requires large investments.

Nash, Roderick, ed., The American Environment: Readings in the History of Conservation, Addison-Wesley Publishing Co., 1968.
PB, ALL, PO-M, U. Evolution of concept of conservation. Articles by Thoreau, Catlin and other early conservationists; expansion of conservation ideas to include land, animals and water; importance of conservation to man. Recommended.

National Academy of Sciences National Research Council, Alternatives in Water Management, National Academy of Sciences, Publication #1408, 1966.
TO. Future development of water resources requires better use of existing knowledge; decision-making process must be responsive to advances in technology. Comprehensive. Recommended as reference on water management.

National Academy of Sciences National Research Council, Committee on Resources and Man, Resources and Man, W.H. Freeman and Co., 1969.
PB, ALL. War, population, pollution, and resource depletion are the main threats to the environment. Specific recommendations for man to live in harmony with nature. Graphs and tables. Recommended as resource material.

National Academy of Sciences National Research Council, Water and Choice in the Colorado Basin, National Academy of Sciences, Publication # 1689, 1968.
PB, TO. Technical and specific. Analysis of water resources and planning. Limited scope.

National Science Foundation, National Ocean Sediment Coring Program, Initial Reports of the Deep Sea Drilling Project, Vol. I, U.S. Government Printing Office, 1969.
TO. Technical. For marine geologists. Analysis of the corings and drill sites involved in a deep sea drilling project.

Nicholson, Max, The Environmental Revolution, McGraw-Hill Book Co., Inc., 1970.
ALL, TO, PO-U. Details events and forces leading up to the Environmental Revolution; evaluates the inadequacies, errors and progress made, with the objective of finding a basis to decide where we go from here.

Novick, Sheldon, The Careless Atom, Houghton Mifflin Co., 1969.
TO, PO-U. Irretrievability of radioactive wastes in the environment. Concern for the problems caused by the incidence of nuclear reactors, the need for solutions and especially for responsible decision-making in the area of atomic energy.

Open Space Action Committee, Stewardship, Open Space Action Institute, 1965.
PB, ALL. The rising problem of scarcity of open space, actions of concerned citizens and organizations. Furnishes names and addresses of contacts. Well organized; interesting and readable.

Philadelphia Electric Company, Power on the Susquehanna, Philadelphia Electric Co., 1969.
ALL. Describes the three power generating units on the Susquehanna River: Conowingo (hydro-electric), Peach Bottom (atomic), Muddy Run (dumped-storage); a short summary on the atom and its uses for power.

Pirie, N.W., Food Resources: Conventional and Novel, Penguin Books, 1969.
PB, ALL, PO-U. Relates fuel needs to population pressures. Lists advantages and disadvantages of conventional agriculture. Investigates new possibilities in agriculture and food from the sea.

President's Council on Recreation and Natural Beauty, From Sea to Shining Sea, U.S. Government Printing Office, 1968.
PB, TO, PO-U. Problems of improving the environment; steps being taken; suggestions as to what can be done. Excellent photography.

President's Science Advisory Committee, Food vs. People, U.S. Government Printing Office, 1968.
PB, ALL, PO-M, U. Subtitled "The Crisis of the War on Hunger and Its Challenge to Economic Development." Charts, tables and text selected from "The World Food Problem." Convenient form for reproduction.

President's Science Advisory Committee, The World Food Problem, Vol. I, U.S. Government Printing Office, 1967.
PB, ALL, TO, PO-U. A general description of the problems involved in searching for new ways to develop inexpensive synthetic dietary supplements to improve the quality and nutritional content of food crops and in finding new technologies for increasing food production.

President's Science Advisory Committee, The World Food Problem, Vol. II, U.S. Government Printing Office, 1967.
TO. Details, tables, graphs and statistics. Recommended as resource for specifically interested teachers.

President's Science Advisory Committee, Panel on Oceanography, Effective Use of the Sea, U.S. Government Printing Office, 1966.
TO. Comprehensive summary of oceanography. Two sections apply directly to population problems (food and pollution) and are highly recommended as a summary of basic concepts.

Reish, Donald J., Biology of the Oceans, Dickenson Publishing Co., Inc., 1969.
ALL. PO-U. Extensive, technical collection of papers describing the oceanic environment and populations. Optimistic concerning potential harvest from the sea.

Resources for the Future, Inc., Resources for the Future--Annual Report 1966, Resources for the Future, Inc., 1966.
PB, TO, PO-U. Three special reports: (1) The Many-Sided Problem of Environmental Quality, (2) Future World Patterns of Aluminum Production, and (3) What Should the User Pay for Outdoor Recreation? An excellent source book for information about a broad spectrum of natural resource problems.

Revelle, Roger, and Hans H. Landsberg, eds., America's Changing Environment, Houghton Mifflin Co., 1970.
ALL. Articles on ecology, water, air, land, economics, politics, the humane city, playgrounds for people and the roles of education. Stresses our ignorance of the physical interactions in the environment.

Riley, Charles M., Our Mineral Resources, John Wiley and Sons, Inc., 1955.
PO-L. In two sections--metallic minerals and nonmetallic. For each mineral are given uses, amount of production, areas where located. Many illustrations, glossary, and references. Economic geology text for elementary grades.

The Rockefeller Foundation, ed., Strategy for the Conquest of Hunger, The Rockefeller Foundation, 1968.
PB, TO. Collection of papers presented at an international symposium concerned with ways of solving food production problems. Includes specific national experiences in food production, the role of the university in agriculture development, and methods of accelerating agricultural output.

Roosevelt, Nicholas, Conservation: Now or Never, Dodd, Mead, and Co., Inc., 1970.
TO, PO-U. The problems of periled beauty of the countryside, the struggles of the past, the successes, the failures, and the lessons to be learned from each. The author stays within the bounds of his personal knowledge and thus writes with an easy familiarity.

Schoenfeld, Clay, Wisconsin Sideroads to Somewhere, Dembar Education Research Services, Inc., 1966.
ALL, PO-M, U. Adventures in outdoor recreation and conservation anyone can find along any sideroad. Stresses the importance of receptivity to wonders close to home.

Sebrel, William H., Jr., et al, Food and Nutrition, Time-Life Books, 1967.
ALL. Diversity of diets and methods of obtaining food in different parts of the world; U.S. food production; food preservation and processing techniques; vitamin, protein, and calorie deficiencies; new methods for increasing food production. Photographs and charts.

Sloane, Howard N., and Lucille L. Sloane, A Pictorial History of American Mining, Crown Publishers, 1970.
ALL. From before the time of Columbus to the present. Easy to understand; pictures in black and white. Deals with the United States only.

Smith, F.G. Walton, and Henry Chapin, The Sun, the Sea, and Tomorrow, Scribner's Sons, 1954.
TO, PO-M, U. General overview of methods of obtaining food, energy, and minerals from the sea. Dated material.

Smith, Frank E., The Politics of Conservation, Pantheon Books, 1966.
ALL. Much of the conservation legislation may have been pragmatically haphazard when viewed historically.

Smith, Guy H., Conservation of Natural Resources, John Wiley and Sons, 1965.
ALL. All of our natural resources and their use from the beginning of our country to the present. Illustrated, non-technical.

Straus, Michael W., Why Not Survive?, Simon and Schuster Co., 1955.
TO. Develops the thesis that with proper use America's natural resources are abundant enough to permit existence at increasingly higher standards of living. Treats energy and population problems as well as mineral, soil, water, and wildlife resources. Optimistic.

Swan, Lester A., Beneficial Insects, Harper and Row Publishers, Inc., 1964.
TO. Biological pest control as opposed to chemical control. Lives and behavior of insects; their natural enemies. Non-technical.

Teal, John, and Mildred Teal, Life and Death of the Salt Marsh, Little, Brown and Co., 1969.
ALL, PO-U. Technical material explained in non-technical terms to give a relatively complete picture of marsh ecology. Recommended for any adult, particularly an East Coast resident.

Ternes, Alan P., ed., The State of the Species, A Natural History Special Supplement, The Natural History Press, 1970.
PB, TO. Eight pertinent articles accompanied by a double-page table of "World Population Data." Articles from man's origins to the constraints of space.

Ubbelohde, A.R., Man and Energy, George Braziller, Inc., 1955.
TO. A broad survey of the radical change in the relationship between man and energy. Very technical. Interesting historical development of energy and its social implications. Little projection into the future.

Udall, Stewart L., The Quiet Crisis, Avon Books, 1963.
PB, ALL. Historical achievements of man in America and failure to keep pace with what should have been our deep respect for the precious land. The vanishing beauty, increasing ugliness, the shrinking open space of America. Source book for the teacher and high school student.

U.N. Conference on the Application of Science and Technology for the Benefit of the Less Developed Areas, Agriculture, Science, Technology, and Development, Vol. III, U.S. Government Printing Office, 1963.
ALL, PO-U. Collection of U.S. papers prepared for the U.N. Conference dealing with agricultural development, nutrition, land and water resources, crop production, animal health and breeding, forestry, and fishery resources. A reference source. Somewhat dated.

UNESCO, Soil Biology, UNIPUB, 1969.
TO. Technical source with emphasis on reclamation of forest and steppe land, the preservation of fertility with intensification of cultivation. Citations, bibliography and index included.

UNESCO, Utilization of Saline Water, UNIPUB, 1956.
PB, TO. Technical source on salt water and the growth of plants, irrigation and desalinization. Contains photos, diagrams, exhaustive citations and index.

U.N. Food and Agriculture Organization, (Prepared by Erich H. Jacoby), Agrarian Reconstruction, Freedom From Hunger Campaign, Basic Study No. 18, UNIPUB, 1968.
PB, ALL, PO-U. Deals with redistribution, tenure legislation, ceiling and floor operations, land consolidation, land settlement, etc. Shows the interrelationship between agrarian reform and general economic development.

U.N. Food and Agriculture Organization, Development Through Food, Freedom From Hunger Campaign, Basic Study No. 2, UNIPUB, 1962.
PB, ALL, PO-U. International and national use of food as aid considering both donor and recipient; emergency needs and proposals. Contains a number of usable charts and graphs.

U.N. Food and Agriculture Organization, (Prepared by M. Heseltine), Education and Training in Nutrition, Freedom From Hunger Campaign, Basic Study No. 6, UNIPUB, 1967.
PB, TO, PO-M, U. Nutrition education, dietary surveys; the significance of food habits; an understanding of eating behavior.

U.N. Food and Agriculture Organization, Fisheries in the Food Economy, Freedom From Hunger Campaign, Basic Study No. 19, UNIPUB, 1968.
PB, ALL. Analysis of the fishing industry today with projections concerning kinds of future consumption and markets which can be expected in developed and developing countries.

U.N. Food and Agriculture Organization, (Prepared by Henry Beresford-Reirse), Forests, Food and People, Freedom From Hunger Campaign, Basic Study No. 20, UNIPUB, 1968.
PB, ALL. Use and misuse of forests in the past and present. Projections of future forest resources and use.

U.N. Food and Agriculture Organization, (Prepared by J.C. Abbott, et al.), Marketing--Its Role in Increasing Productivity, Freedom From Hunger Campaign, Basic Study No. 4, UNIPUB, 1962.
PB, TO. What marketing is, its improvement, evaluation of its impact on hunger and production.

U.N. Food and Agriculture Organization, (Prepared by Robert Theobald), National Development Efforts, Freedom From Hunger Campaign, Basic Study No. 13, UNIPUB, 1963.
ALL, PO-U. Definition of development; a brief description of routes to economic development and the problems involved; a description of current assistance by developed countries to developing countries.

U.N. Food and Agriculture Organization, (Prepared by Robert C. Cook), Population and Food Supply, Freedom From Hunger Campaign, Basic Study No. 7, UNIPUB, 1964.
PB, ALL, PO-M, U. A demographic survey.

U.N. Food and Agriculture Organization, (Prepared by Walter H. Pawley), Possibilities of Increasing World Food Production, Freedom From Hunger Campaign, Basic Study No. 10, UNIPUB, 1963.
PB, TO, PO-U. Emphasis on underdeveloped countries' food needs as population grows and how to meet them. Data from many countries.

U.N. Food and Agriculture Organization, Protein: At the Heart of the World Food Problem, UNIPUB, 1964.
PB, TO, PO-U. Summarizes human protein needs; examines unconventional as well as conventional sources to meet these needs.

U.N. Food and Agriculture Organization, Rice, Grain of Life, UNIPUB, 1966.
PB, ALL. Considers the significance of rice as a food staple, its varieties, cultivation, processing, storage, by-products, and the world rice economy. Comprehensive, non-technical. For middle and upper students and teachers.

U.N. Food and Agriculture Organization, Six Billions to Feed, UNIPUB, 1962.
PB, ALL, PO-M, U. A simply-illustrated, expository treatment of the extent of world hunger and projections of future food needs.

U.N. Food and Agriculture Organization, The State of Food and Agriculture 1968, UNIPUB, 1968.
PB, TO. World scope. Review of world food supply with future outlook. Quantities of tables annexed. Increase in production through improved technology and better storage.

U.N. Food and Agriculture Organization, (Prepared by J.A. Gulland, et al.), The State of World Fisheries, UNIPUB, 1968.
ALL, PO-M, U. Problems arising from increased fish catches among the nations and the need for international management. Suggests methods of regulation as well as posing problems and prospects for the future.

U.N. Food and Agriculture Organization, Third World Food Survey, Freedom From Hunger Campaign, Basic Study No. 11, UNIPUB, 1963.
PB, ALL, PO-M, U. Demographic. Dated, but could be utilized in a comparison study.

U.S. Atomic Energy Commission, The Nuclear Industry, U S. Government Printing Office, 1969.
PB, ALL, PO-U. A yearbook assessing the state of the nuclear industry and its major facts. Ranges from employment and investment to licensing, regulation and legislation. Has sections dealing with the materials, processing and fabrication, and equipment used in the nuclear industry. Useful to student doing basic research.

U.S. Department of Agriculture, Farmers' World, The Yearbook of Agriculture 1964, U.S. Government Printing Office, 1964.
ALL. Collection of articles dealing with agricultural production, marketing, world trade, agreements, assistance, and needs. Resource material. Non-technical.

U.S. Department of Agriculture, Insects, The Yearbook of Agriculture 1952, U.S. Government Printing Office, 1952.
TO. The useful insects, as well as the harmful. How to know an insect, the use of insecticides and other controls, household insects insects and crops, insects and livestock. Color plates of insects. Dated, particularly concerning use of insecticides.

U.S. Department of Agriculture, Outdoors USA, The Yearbook of Agriculture 1967, U.S. Government Printing Office, 1967.
TO, PO-M, U. Recreational opportunities in the U.S. Exceptionally good illustrations.

U.S. Department of Agriculture, Protecting Our Food, The Yearbook of Agriculture 1966, U.S. Government Printing Office, 1966.
ALL. The challenges, tools, and roles of government and industry. The future of agriculture extensively covered with emphasis on protecting the yield.

U.S. Department of Agriculture, Science for Better Living, The Yearbook of Agriculture 1968, U.S. Government Printing Office, 1968.
ALL, PO-M, U. Well illustrated. Covering a number of aspects of the benefits of science. Optimistic.

U.S. Department of Agriculture, Soil, The Yearbook of Agriculture 1957, U.S. Government Printing Office, 1957.
TO, PO-U. Soil management for the homeowner as well as the farmer with information on soil classification, soils of the United States, and the most basic items of soil science. The efficient utilization of soil resources.

U.S. Department of Agriculture, Synthetics and Substitutes for Agricultural Products, U.S. Government Printing Office, 1969.
PB, TO. Fibers, dairy products, cereal products, meat and poultry substitutes, sugar substitutes, leather, citrus drinks, oilseed products, and proteins from petroleum are covered, each by trends and situations specific to the industry.

U.S. Department of Agriculture, Agricultural Research Service, Imprint on Living, Bulletin #333, U.S. Government Printing Office, 1969.
PB, ALL. Mini-reports on "what's new" from almost every nation in almost every field that could be connected with food, health, housing and farming.

U.S. Department of Agriculture and U.S. Department of Housing and Urban Development, Soil, Water, and Suburbia, U.S. Government Printing Office, 1968.
PB, TO, PO-M, U. Illustrated presentation of the problems produced by the shift of land from rural to suburban and urban uses. Opportunities for community action cited.

U.S. Department of Health, Education, and Welfare, Public Health Aspects of Peaceful Uses of Nuclear Explosives, Clearinghouse for Federal Scientific and Technical Information, U.S. Department of Commerce, 1969.
PB, TO. Proceedings of a symposium. Evaluates what is presently known and not known in the area of public health and safety for peaceful use of nuclear explosives. Air-blast and ground motion effects as well as transport of radioactivity involved in "plowshare" activities.

U.S. Department of the Interior, Man: An Endangered Species?, Conservation Yearbook No. 4, U.S. Government Printing Office, 1968.
PB, ALL, PO-M. A well-illustrated assessment of man's resources (including human resources) complete with a financial report of the Department of the Interior.

U.S. Department of the Interior, The Nation's River, U.S. Government Printing Office, 1968.
PB, ALL. Prepared in answer to a direct request from President Johnson for workable solutions to the problems of the Potomac River. Many of the solutions offered are of value in other areas of the country.

U.S. Department of the Interior, The Natural Resources of Arizona, U.S. Government Printing Office, 1963.
PB, ALL. Develops information on history of Arizona, the physical characteristics, the park and recreational resources, fish and wildlife resources, water and power resources, mineral and land resources, and Indians and their resources.

U.S. Department of the Interior, Natural Resources of Colorado, U.S. Government Printing Office, 1963.
PB, ALL. Covers information on the history of Colorado, its physical characteristics, recreation resources, fish and wildlife, water and power resources, land resources, mineral resources, Indians of Colorado and their resource utilization. Various programs of federal natural resource agencies are reviewed.

U.S. Department of the Interior, Natural Resources of Idaho, U.S. Government Printing Office, 1965.
PB, ALL. Provides a brief history of Idaho; its physical characteristics, water and power resources, land and forest resources, mineral resources, fish and wildlife. The Indians of Idaho and their resources are an important segment as well as present resource use for recreation purposes. The various programs of federal agencies are spelled out.

U.S. Department of the Interior, Natural Resources of Massachusetts, U.S. Government Printing Office, 1964.
PB, ALL. Provides a brief summary of history of Massachusetts and the historic use of natural resources, the physical characteristics of the state, the recreation and wildlife resources, the water and power resources, the mineral resources. A geologic history and history of the Indian in Massachusetts. Programs of federal natural resource agencies are reviewed.

U.S. Department of the Interior, Natural Resources of Montana, U.S. Government Printing Office, 1964.
PB, ALL. Provides a brief introduction and history of the State of Montana, the physical characteristics, its recreational resources, fish and wildlife, water and power resources, mineral resources, land resources, the Indians of Montana, and the work of federal natural resource agencies.

U.S. Department of the Interior, Natural Resources of Nevada, U.S. Government Printing Office, 1964.
PB, ALL. Provides information on the history and physical characteristics of the state, along with fish and wildlife resources, water and power resources, mineral resources, recreational resources, the Indians, resource use, and utilization of resources by federal agencies.

U.S. Department of the Interior, The Natural Resources of New Mexico, U.S. Government Printing Office, 1964.
PB, ALL. Develops information on history of New Mexico, the physical characteristics, fish and wildlife resources, water and power resources, mineral resources, land and forest resources, and the Indians and their resources.

U.S. Department of the Interior, The Natural Resources of Ohio, U.S. Government Printing Office, 1964.
PB, ALL. Develops information on history of Ohio, its physical characteristics, park and recreational resources, fish and wildlife resources, water and power resources, mineral resources, land resources, a summary of the geologic history and the work of federal natural resource agencies. Some good photos of cities and land use in Ohio.

U.S. Department of the Interior, Natural Resources of Oregon, U.S. Government Printing Office, 1964.
PB, ALL. Information developed through history of state, its physical characteristics, fish and wildlife resources, water and power resources, forest and land resources, mineral resources, parks and recreation, Indians and resource use, programs of federal natural resource agencies.

U.S. Department of the Interior, Natural Resources of Texas, U.S. Government Printing Office, 1965.
PB, ALL. Provides information on the history of the State of Texas, its physical characteristics, water and power resources, mineral resources, fish and wildlife resources, land and forest resources and recreational resources. The work of federal natural resource agencies is dealt with. One of the best of the Natural Resources Series. Highly recommended.

U.S. Department of the Interior, Natural Resources of Utah, U.S. Government Printing Office, 1965.
PB, ALL. Contents developed through brief outline of history and physical characteristics of the state. Utilization of water and power resources, land and forest resources, mineral resources and fish and wildlife resources is emphasized. The Indians and their resources and the use of parks for recreation are developed.

U.S. Department of the Interior, Natural Resources of Washington, U.S. Government Printing Office, 1964.
PB, ALL. Begins with a history of the state and deals with physical characteristics, park and recreational resources, water and power resources, fish and wildlife, minerals, land utilization and the geologic history of the state. Federal facilities for resource management also covered.

U.S. Department of the Interior, Natural Resources of West Virginia, U.S. Government Printing Office, 1964.
PB, ALL. Introduces the state through its history and deals with physical characteristics and geologic history. Deals with mineral, land, water, and park and recreational resources. Work of federal natural resource agencies dealt with.

U.S. Department of the Interior, Quest for Quality, Conservation Yearbook, U.S. Government Printing Office, 1965.
ALL. Excellent pictures in color and articles depict the present state of natural resources. Covers water, wildlife, land, metals, non-metal minerals and fossil fuels. Programs of research done by the Bureau of Mines to find new and improved methods to prolong and amplify our mineral resources. Excellent background source.

U.S. Department of the Interior, Rare and Endangered Fish and Wildlife of the United States, U.S. Government Printing Office, 1968.
PB, ALL. Begins with a list of "endangered species," defines the term, lists extinct species, and catalogues rare and endangered species by distinguishing characteristics, distribution, status, estimated number, breeding rate, and reasons for decline.

U.S. Department of the Interior, Saline Water Conversion Report 1968, U.S. Government Printing Office, 1968.
PB, ALL. Extensive, detailed and technical reports covering current research, engineering and development, project management and plant engineering in this field.

U.S. Department of the Interior, Surface Mining and Our Environment, U.S. Government Printing Office, 1967.
PB, PO-U. How man has scarred the land through surface mining practices and the reclamation of this land. Excellent illustration; data presented in charts.

U.S. Department of the Interior, The Third Wave--America's New Conservation, Conservation Yearbook No. 3, U.S. Government Printing Office, 1966.
PB, ALL. Definition of conservation and its problems along with actions by the Department of the Interior in resolving these problems. Technological growth must be directed wisely and sound conservation practices followed so the balance of nature and man's environment will not be abused. Presented is an inclusive report of Department of the Interior efforts to control pollution. Four beautiful and informative special color essays depicting the need for conservation and preservation.

U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook 1963 Vol. III, U.S. Government Printing Office, 1963.
TO. County-by-county summaries of the mineral industry of each of the states. Tables and charts.

U.S. Water Resources Council, The Nation's Water Resources, U.S. Government Printing Office, 1968.
ALL. The first assessment of the nation's water resources prepared by Water Resources Council. Deals with water and related land resources, their use, and management problems. Suggested solutions.

Van Dersal, William R., The Land Renewed, Henry Z. Walck, Inc., 1968. TO, PO-M, U. Revised and expanded edition of 1946 issue, describing how land can be developed, restored and improved in the U.S.; geared toward soil conservation, its history, trends and the future. Many photos. Recommended for anyone teaching soil conservation and for students.

Wadleigh, Cecil H., Wastes in Relation to Agriculture and Forestry, U.S. Government Printing Office, 1968.
PB, TO. A definitive and detailed report on many kinds of waste material, their effect and the nature of the needs concerning information relating to the effect, as well as the cost of adequate disposal, where figures are available.

Walker, Ernest D., and Albert B. Foster, This Is Our Soil, The Interstate Printers and Publishers, 1951.
PB, ALL, PO-L, M, U. A well-illustrated, 56-page booklet on the methods and significance of soil conservation. A good list (with descriptions) of 23 student projects. Somewhat dated.

Wells, George S., Garden in the West, Dodd, Mead and Co., Inc., 1969. ALL, TO, PO-U. An account of the various factors that have made California the greatest producer of food the world has ever seen. Presents the philosophy that the science of agriculture is the common property of man and should be exported without profit incentive to any nation that can use it as a method of combating hunger in the world.

Williams, Moyle, and John Couston, Crop Production Levels and Fertilizer Use, UNIPUB, 1962.
PB, TO. Almost an operational manual for encouraging the use of fertilizer. Evidence for increased production is pointed and brief; graphs included. Brochure is outgrowth of the Freedom From Hunger Campaign.

Wright, James, The Coming Water Famine, Coward-McCann, Inc., 1966. TO, PO-U. The need for conservation of our natural water. Suggestions for possible action. A strong argument reveals the magnitude of the problem. Recommended for secondary students and teachers.

Zurhorst, Charles, The Conservation Fraud, Cowles Book Co., Inc., 1970. TO, PO-M, U. Emphasizes the need for a clearly defined national conservation policy. Delineation of the confusion and conflicts of interest which exist today among conservation organizations, both governmental and private. Recommended.

POLLUTION

American Association for the Advancement of Science, *Air Conservation*, American Association for the Advancement of Science, 1965.
ALL, TO, PO-U. Air conservation and public policy, a summary of facts and background reports. Considers pollutants in detail, as well as other associated factors. Recommended for secondary students and teachers.

American Chemical Society, *Cleaning Our Environment*, American Chemical Society, 1969.
PB, TO, PO-U. A fairly high-level book on all types of pollution with recommendations in all areas: research, laws, criteria, etc.

Battan, Louis J., *The Unclean Sky*, Doubleday and Co., Inc., 1966.
PB, TO, PO-M, U. Shows the relationships between air pollution and weather. Pollution from smokestacks and automobiles receive most attention. Some topics included: sources of pollution, settling out of particles, capturing particles and sampling gases, chemistry of the atmosphere, price of pollution, forces that move the air, and methods of improving present conditions. An excellent book.

Benarde, Melvin, *Our Precarious Habitat*, W.W. Norton and Co., Inc., 1970.
ALL. Informative text of the environment as a system, chemicals in food, air pollution, noise, etc. Illustrations are of limited value. Extensive index that is helpful in locating specific information.

Berg, George C., *Water Pollution*, Scientists' Institute for Public Information, 1970.
PB, ALL. A series of brief articles describing water pollution problems and their solutions. Teaches the intricacies of water pollution through short case studies, describing problems of rivers, streams, lakes, estuaries, groundwater, and the ocean. Specific examples cited. An excellent teacher or student resource. Concise, complete, inexpensive, written for the layman.

Bregman, J.I., and Sergie Lenormand, *The Pollution Paradox*, Spartan Books, 1966.
ALL. Air and water pollution from the standpoints of causes; effects on plants, animals, and health; possible and actual treatments; government action and controls; and resources. Three appendices: state pollution control centers, city air pollution control, and the 1966 presidential message to Congress concerning pollution. Highly technical. Addresses in appendices could be helpful. Index is difficult to use for specific information.

Broecker, Wallace, et al., Atmospheric Carbon Dioxide, reprinted from Restoring the Quality of Our Environment, Harvard University Center for Population Studies, 1965.
PB, TO. A twenty-one page pamphlet covering the current carbon dioxide content of the air, recent increases, probable future increases, many possible effects, other possible sources and conclusions.

Carr, Donald E., The Breath of Life, W. W. Norton and Co., Inc., 1965.
ALL, PO-U. Origins and nature of air pollution, from earliest days to the present as examined by a research chemist. Burning gasoline and low-grade heating oils as the primary sources. What has been done, is being done and must be done. For upper students and teachers.

Carr, Donald E., Death of the Sweet Waters, W. W. Norton and Co., Inc., 1966.
ALL, PO-U. The historical background and contributing elements to water pollution. Present factors exceptionally well handled. Non-technical. For upper students and teachers.

Carson, Rachel, Silent Spring, Fawcett Publications, Inc., 1962.
PB, ALL, PO-M, U. Classic awakener. An extensive list of principal sources. Delineates the effects of man's carelessness and projects into the future.

Curtis, Richard, and E. Hogan, Perils of the Peaceful Atom, Doubleday and Co., Inc., 1969.
ALL, TO, PO-U. The controversial argument for "the orderly cessation of the atomic power program" of the United States. Testimony from scientists and governmental officials on the hazards of nuclear power stations out-weighing the benefits. Excellent source of data. For upper students and teachers.

Edelson, Edward, The Battle for Clean Air, Public Affairs Committee, 1967.
PB, ALL, PO-U. Pamphlet clearly describes air pollution, its effects and sources, and actions to be taken. Indicates a need for co-ordinated programs to insure air quality over entire "airsheds." For upper students and teachers.

Goldman, Marshall I. ed., Controlling Pollution, Prentice-Hall, Inc., 1967.
PB, TO. Subtitled "The Economics of a Cleaner America." Series of articles published by noted economists and conservationists in the U.S. and Soviet Union. Excellent report of seldom-heard side of the issue.

Graham, Frank, Jr., Disaster by Default: Politics and Water Pollution, M. Evans and Company, Inc., 1966.
TO, PO-U. Documented book concerning what has and has not been done in the field of water pollution. Almost humorous in spots where individuals are quoted.

Graham, Frank, Jr., Since Silent Spring, Houghton Mifflin Company, 1970.
ALL, PO-U. Begins with Rachel Carson's book, describing the resources Miss Carson used and the interference she encountered in writing her book, proceeds to review the impact of her book, the present state of pesticide use and alternative methods for controlling insect pests. Admits the other side of the question is advocated by some, but quickly offers evidence to contradict their premises.

Herfindahl, Orris, and Allen Kneese, Quality of the Environment, Johns Hopkins Press, 1965.
TO, PO-U. Discusses five areas where the quality of the environment needs to be changed by economics--polluted water, polluted air, pesticides, urban areas, and rural countryside. Informative and non-technical.

Hoopes, Roy, A Report on Fallout in Your Food, Signet Books, 1962.
ALL, PO-U. Defines fallout and attempts to explain what one can do about it. Well researched, non-technical.

Jensen, Michael E., Observations of Continental European Solid Waste Management Practices, U.S. Government Printing Office, 1969.
TO. A report on how Europe handled its wastes in 1967. Calls for a free and rapid exchange of information among interested countries and sees value in an international solid waste field approach.

Lawrence, R.D., The Poison Makers, Thomas Nelson & Sons, Ltd. 1969.
TO. Pollution problems related to the Canadian people. Ties man to the environmental problems directly and logically. Uses isolated extremes to get a point across.

League of Women Voters, The Big Water Fight, The Stephen Greene Press, 1966.
ALL, PO-U. Aptly subtitled "Trials and Triumphs in Citizen Action on Problems of Supply, Pollution, Floods and Planning across the U.S.A."

Leinwand, Gerald, Air and Water Pollution, Washington Square Press, 1969.
PO-M, U. A collection of position statements and definitions of pollution problems prepared for the high school student. Each reading is followed by open-ended questions. Pictures accompanying the text are, in many cases, more valuable than the words in conveying meaning. The annotated bibliography and footnote definitions make the book useful as a classroom resource or text.

Lewis, Alfred, Clean the Air, McGraw-Hill Book Co., 1965.
TO, PO-U. The deadly fumes, particles and chemicals constituting pollution are described in terms of how they are formed, their functions, their increasing numbers, and what can be done to clean the air.

Lewis, Howard R., With Every Breath You Take, Crown Publishers, Inc., 1965.
TO. Subtitled "The Poisons of Air Pollution, How They Are Injuring Our Health, and What We Must Do About Them." Dramatically presented.

McMillen, Wheeler, Bugs or People? Appleton-Century, 1965.
ALL. Beginning with the premise that no human death has been attributed directly to pesticides, discusses the use of chemicals to prevent epidemics, to guard against wormy apples, to stop the spread of cattle grubs. Heavy emphasis placed upon the economic implications of pesticide use for the farmer and the consumer. Weighted heavily in favor of pesticide use, minimizing, but mentioning, the persistence, distribution, and concentration of pesticides in food chains and in the environment as a whole.

Nadler, Allen A., et al., Air Pollution, Scientists' Institute for Public Information, 1970.
PB, ALL. A concise description of the problem of air pollution, written for the layman. Constituents of the air, their effects upon the natural system, and their sources are discussed. An analysis of air pollution disasters is followed by a discussion of man's relationship with air pollution. An excellent resource for the teacher. A possible resource for a student who can read well from grade five upward.

National Academy of Sciences, Committee on Pollution, Waste Management and Control, U.S. Government Printing Office, 1966.
TO, PO-U. Well-written, objective treatment of the entire problem of pollution. Recommended for upper students and teachers.

National Tuberculosis and Respiratory Disease Association, Air Pollution Primer, National Tuberculosis and Respiratory Disease Association, 1969.
PB, ALL, PO-M, U. A complete discussion of air pollution, its origins, secondary effects, its far reaching health and economic implications and its relationship to transportation. A precise straight forward approach to an extremely complex problem. It can be read quickly and understood without any previous background in the subject.

Ross, Richard D., ed., Industrial Waste Disposal, Reinhold Book Corp., 1968.
TO. For waste disposal engineers. Covers all aspects of waste and its disposal from the point of view that the necessary technology exists for the solution of problems in this area.

Sheehy, James P., et al., Handbook of Air Pollution, Public Health Service Publication #999-AP-44, U.S. Government Printing Office, 1969.
ALL. A highly technical handbook giving a statistical breakdown of the characteristics and components of air, including contaminants. Of no practical use to the layman.

Smith, J. E., Ed., 'Torrey Canyon' Pollution and Marine Life, Cambridge University Press, 1968.
TO. A technical book dealing specifically with the dispersal of the 'Torrey Canyon' oil spill and the attendant effects of the use of detergents. ".....showed that when dangers of pollution are evident there is a wide-spread public concern for the formulation and development of a nationally conceived policy for dealing with pollution hazards." Excellent photographs showing oil pollution and its effects on marine life.

Stewart, George R., Not So Rich As You Think, Houghton Mifflin Co., 1968.
TO. The crisis of disposal explored in its many forms. Well documented; offers hope of solution to problem.

Still, Henry, The Dirty Animal. Hawthorn Books, Inc., 1967.
TO, PO-U. Problems of pollution in the U.S. and world. Gives specific examples of problems in the areas of air, water and pesticide pollution. Includes examples where pollution controls have met with success. Informative. Easily read.

U.S. Department of Commerce, The Automobile and Air Pollution: A Program for Progress, U.S. Government Printing Office, 1967.
TO. A report of an advisory committee containing sixteen recommendations considered as a minimum set of action steps for a national program to combat air pollution. Each recommendation is supported through explanation, charts, graphs, and the technology of the source of pollution.

U.S. Department of Health, Education, and Welfare, No Laughing Matter, U.S. Government Printing Office, 1966.
PB, ALL, PO-M, U. Collection of cartoons on air pollution reprinted from various newspapers and magazines.

U.S. Department of the Interior, Federal Water Pollution Control Administration, Delaware Estuary Comprehensive Study, U.S. Government Printing Office, 1966.
PB, TO. A preliminary report and findings concerning pollution in the Delaware Estuary from Trenton, N.J. to Liston Point, Delaware. Describes the geography, topography, geology, climate, hydrology, and principal communities and industries of the study area. Discusses waste inputs, water quality and improvement, water uses, implementation of control programs, and additional study requirements. The report contains excellent charts and graphs on such things as oxygen levels, bacteria counts, fish yields, population projections, etc.

Whitten, Jamie L., That We May Live, D. Van Nostrand Co., Inc., 1966.
TO. The case for pesticides as one of our major weapons of survival. The need to develop realistic "legal tolerances" as opposed to attempting unreal "zero tolerances."

Wilson, Billy Ray, Environmental Problems, J. B. Lippincott Co., 1968.
TO. A discussion of the consequences of man's population and activities. The topics range from the environmental health sciences to the effects of pesticides and thermal pollution. An excellent discussion; easily read and understood.

Wolman, Abel, Water, Health and Society, Indiana University Press, 1969.
ALL. Collection of selected papers by the author, written throughout his career in water management. Deals with water resources, technology, policy and organization, and the professional responsibilities of the environmental engineer.

POPULATION CONTROL

American Public Health Association's Program Area Committee on Population and Public Health, Family Planning, American Public Health Association, Inc., 1968.
PB, TO, PC-U. A guide for local and state family planning agencies. Non-technical terms, suitable reading for anyone interested in family planning programs. Discusses U.S. programs only.

Behrman, S.J., et al., eds., Fertility and Family Planning, University of Michigan Press, 1969.
TO. A collection of articles dealing with fertility trends, their causes and consequences, biological aspects of fertility control, public family planning programs, predictions concerning fertility programs in the next decade, and the need for priorities.

Berelson, Bernard, et al., Family Planning and Population Programs, University of Chicago Press, 1966.
TO. Comprehensive collection of articles dealing with achievements and problems, organization and administration of family planning programs in many different countries. Contraceptive methods and their programmatic implications are discussed in detail.

Carolina Population Center, Approaches to the Human Fertility Problem, Carolina Population Center, 1968.
PB, TO. Indicates the kinds of relevant knowledge already available for a broad approach to this problem and suggests the need for further research. Prepared for the U.N. Advisory Committee on the Application of Science and Technology to Development.

Consumer Reports, Editors of, Consumers Union Report on Family Planning, Consumers Union of the U.S., Inc., 1966.
ALL. Comprehensive guide for physicians, social workers and people who seek information on family planning and adoption. Discusses various types of contraceptive devices, ways of improving fertility, adopting children through a public and private agency and a complete listing of Planned Parenthood Committees.

Corwin, Arthur, World Population and American Responsibility, University of California at Davis, Department of History, 1968.
PB, ALL. Review of the history of population control efforts, funds and foundations for birth control, enumeration of program details and results of several population studies. A statement of the effects of death control technology establishes clearly that America has the key responsibility for birth control efforts. The work is an appeal for increased effort in this field.

Dupre, Louis, Contraception and Catholics, Helicon Press, Inc., 1964.
TO. A discussion of the arguments generally proposed by Catholics against the use of artificial birth control.

Granfield, David, The Abortion Decision, Doubleday and Co., Inc., 1969.
ALL. A scholarly review of the historical, legal, moral, social, psychological, scientific and situational aspects of abortion. Argues that society should and can develop a deeper and more active concern for human life rather than promote the life-denying shortcut to human problems of abortion.

Guttmacher, Alan F., et al., Birth Control and Love, Macmillan Co., 1969.
ALL. Comprehensive coverage of conception and contraception including future birth control methods; what the major religious organizations say about birth control. Sections on sterilization and infertility.

Hardin, Garrett, ed., Population, Evolution, and Birth Control, W.H. Freeman and Co., 1964.
PB, TO. Subtitled "A Collage of Controversial Readings." Excellent background for classroom teachers. Has a companion booklet Science and Controversy: Population--A Case Study.

Hardin, Garrett, Science and Controversy: Population--A Case Study, W.H. Freeman and Co., 1969.
PB, ALL, PO-U. Designed to accompany the book, Population, Evolution and Birth Control. Presents the author's thoughts on a creative approach to controversy and T.C. Chamberlin's "Method of Multiple Working Hypotheses", followed by 29 sample controversies concerning population.

Havemann, Ernest, and the Editors of Time-Life Books, Birth Control, Time-Life Series, Time, Inc., 1967.
ALL, PO-M, U. A brief history of birth control: reasons and methods and some modern concepts. A relatively detailed description of nine major contraceptive practices. Some predictions of future techniques; mechanics of fertilization and zygote development; sterility problems; abortion; societies' views concerning birth control; the general problem of population increase. Excellent photography.

Henshaw, Paul S., Adaptive Human Fertility, McGraw-Hill Book Co., 1955.
TO. A well-developed picture of procreation and the growth mechanism, inducements for fertility management, the inherent conflicts and impediments, the history of fertility and population mangement. Optimal population and the basic nature of the principles necessary for its success.

Hoyt, Robert G., ed., The Birth Control Debate, National Catholic Reporter Publishing Co., 1968.
PB, TO, PO-U. Designed to facilitate an understanding of the history, theology, authority, and philosophy of the Roman Catholic position on birth control. The section titled "The State of the Question" is of value as a summary of the state of Roman Catholic thinking about contraception in 1968.

Moran, William, Jr., ed., Population Growth--Threat to Peace? P.J. Kenedy & Sons, 1965.
ALL, TO, PO-U. Series of essays by participants in a conference of the Catholic Association for International Peace. Surveys the gravity of population growth on a worldwide basis; attempts to clarify the Roman Catholic position on birth control, and calls for Catholics to review what their position should be concerning population control programs. Easy, general reading.

Neubardt, Selig, Contraception, Pocket Books, 1967.
PB, ALL, TO, PO-U. A doctor compares the methods of contraception and abortion from the standpoint of individual needs and experiences. Contraception in layman's language; no moral conclusions except the basic premise that sex is necessary to married life.

O'Brien, John A., Family Planning in an Exploding Population, Hawthorn Books, Inc., 1969.
ALL. Statements, testimony, documents and articles in favor of birth control. Deals with the population explosion, family planning, government's role in family planning and appeals for reappraisal.

Osterman, Robert, and Mark R. Arnold, "The Pill" and Its Impact, The National Observer, 1967.
PB, ALL, PO-U. Examines the sociological impact of the pill on women, America's poor, the population explosion, adolescents. The role of abortion and sterilization in changing attitudes toward birth control. The importance of the implications of birth control to man as a species. Readable.

Pahlman, Edward, The Psychology of Birth Planning, Schenkman Publishing Co., Inc., 1969.
TO, PO-U. Psychological theory and research for birth planning. Includes a bibliography of approximately 700 titles. Recommended for people in the population education field.

Rushdoony, Rousas J., The Myth of Overpopulation, The Craig Press, 1969.
TO. Socialism, welfarism and immorality are the source of overpopulation, not people or numbers of people. Cultural drop-outs, i.e., drop-outs from responsibility, accountability, and life, related to suicide rate.

Theological Studies, "Abortion", Theological Studies, Inc., Society of Jesus of the U.S., Vol. 31, No. 1, March 1970.
PB, TO. Biological, historical, epistemological and legal backgrounds of abortion. Circumstances of pregnancies and interrupting pregnancy are discussed at length. Language somewhat technical; meant for Jesuits. Emphasis on religious and moral aspects of abortion question.

U.S. Food and Drug Administration, Report on Intrauterine Contraceptive Devices, U.S. Government Printing Office, 1968.
PB, ALL, PO-U. History, designs, utilization, biologic action, adverse reactions and safety of intrauterine contraceptives. Highly technical; of some use in a study of current methods.

U.S. Food and Drug Administration, Second Report on the Oral Contraceptives, U.S. Government Printing Office, 1969.
PB, ALL, PO-U. Highly technical task-force reports, summary by the chairman, including action taken and further studies recommended.

Wishik, Samuel M., Indexes for Measurement of Amount of Contraceptive Practice, UNIPUB, 1968
PB, TO. The technical rationale and formula design behind the indexes. Data forms are included.

Wood, H. Curtis, Jr., Sex Without Babies, Whitmore Publishing Co., 1967.
TO. A comprehensive review of voluntary sterilization as a method of birth control. Well illustrated.

POPULATION EDUCATION

Bohannan, Paul, Love, Sex and Being Human, Doubleday and Co., Inc., 1969.
PO-U. A frank, objective book about the moral and biological aspects of sexuality. Explains reproduction, contraception, masturbation, marriage, the family, sex and morality.

Brandwein, Paul F., Substance, Structure, and Style in the Teaching of Science, Harcourt, Brace and World, 1965.
PB, TO. 31-page pamphlet. Excellent development of a philosophy for the procedure of science teaching. While the methodology is specifically oriented to science, it is of considerable value for understanding motivation of learners.

Burn, Helen Jean, Better than the Birds, Smarter than the Bees, Abingdon Press, 1969.
PO-M. A fact-filled book about sex and growing up. Answers teenage questions directly. Stress on the individual person who must learn to understand his sexuality. Bibliography of books and films for use in sex education classes divided by grade level.

Child Study Association, Sex Education and the New Morality, Columbia University Press, 1967.
PB, TO. Subtitled "A Search for a Meaningful Social Ethic." Series of essays describing current sexual issues and ideas, and their origins and implications.

Ellis, Havelock, On Life and Sex, Signet Books, 1957.
PB, ALL. A rational view based on the partial separation of sexuality and reproduction. Contrasts the limits of environmental support with the unlimited capability of reproduction. Credits man with the ability to avoid the disasters of "natural population control."

Johnson, Warren R., Human Sexual Behavior and Sex Education, Lea and Febiger, 1968.
ALL. Covers the institution of marriage, cultural tradition concerning sex and sexes, language as a barrier of accurate communication, roles which mold males and females, morality and religion, theories of sex education and other pertinent topics. Chapters have helpful summaries. Reference list.

Kinsey, Alfred C., et al., Sexual Behavior in the Human Female, W.B. Saunders Co., 1953.
ALL. An explanation of the background and procedures in gathering clinical data concerning female sexuality. Description and statistical analysis of the sexual outlets of the female and a comparison of data concerning the male.

Kinsey, Alfred C., et al., Sexual Behavior in the Human Male,
W.B. Saunders Co., 1948.
ALL. An explanation of the background and procedures in gathering the clinical data concerning male sexuality. Description and statistical analysis of the sexual outlets of the male.

Lerrigo, Marion O., and Helen Southard, A Story About You,
E.P. Dutton, Inc., 1955.
PO-M. Birth and growth--prenatal to adolescence. Clear and understandable. Well illustrated.

Lerrigo, Marion O., and Helen Southard, What's Happening to Me?,
E.P. Dutton, Inc., 1969.
PO-M, U. "A frank discussion of the physical, mental and emotional" changes in the boy and girl from ages 12 to 15.

McCary, James Leslie, Human Sexuality, D. Van Nostrand Co., Inc.,
1967.
TO. Discusses the physiological and psychological factors of sex behavior. Topics include male and female reproductive systems, birth control, techniques of sexual intercourse, sexual attitudes, sexual diseases, and sexual aberrations. Establishes a need for proper sex education.

Parent and Child Institute, The Life Cycle Library for Young People, Parent and Child Institute, 1969.
ALL, PO-M, U. Illustrated set of 4 volumes. Detailed coverage of the origin of individual human life, and the development of the individual from infancy to adulthood. Complete and frank sex education. Fourth volume is a glossary and index.

Pike, James A., Teen-Agers and Sex, Prentice-Hall Publishers, 1965.
ALL. Bishop Pike offers guidance to parents of teen-agers during the "sexual revolution."

Selsam, Millicent E., The Courtship of Animals, William Morrow and
Co., 1964.
PO-L, M. An absorbing account of courtship practices in a variety of animals. Illustrated.

Sex Information and Education Council of the United States (SIECUS),
ed., Sexuality and Man, Charles Scribner's Sons, 1970.
TO. Clear and straightforward articles by different authors. Includes sexual responses, masturbation, homosexuality, sex education and moral values. Contains an annotated appendix of useful films. An excellent, diverse guide.

U.S. Department of Health, Education, and Welfare, The Nation's Youth, U.S. Government Printing Office, 1968.
PB, ALL. Children's Bureau Publication No. 460, chart book clearly showing a diversity of statistical information concerning the nation's youth.

REGIONAL PLANNING AND LAND USE

Appleyard, Donald, et al, The View From the Road, Massachusetts Institute of Technology Press, 1964.
ALL. The engineering possibility of highway esthetics carefully analyzed, as well as its current impact on driver and passenger contrasted with its potential. Somewhat technical.

Blake, Peter, God's Own Junkyard, Holt, Rinehart and Winston, 1964.
PB, ALL, PO-M. An indictment of the vandalization of the land by the little people, the big people and the apathetic people. Substantially supported by pictures.

Brenneman, Russell L., Private Approaches to the Preservation of Open Land, Conservation and Research Foundation, 1967.
TO. Well-documented and systematic explication of private alternatives for land conservation. Twelve case examples enrich the case for private, as opposed to governmental, dispensation of our open lands.

Crosswhite, William M., and Gerald F. Vaughn, Suburban Development in Metropolitan Northern Delaware, Cooperative Bulletin No. 3, University of Delaware, Agricultural Experiment Station, June 1966.
PB, TO, PO-M, U. An excellent documentation of residential development in northern Delaware. Illustrates relationships between population projections, land use, urban effects on farm economy, employment classifications and sewage disposal.

Dansereau, Pierre, ed., Challenge for Survival: Land, Air, and Water for Man in Megalopolis, Columbia University Press, 1970.
ALL. A series of essays about dangers, needs, and programs. Useful in general terms. Bibliographies.

Eckbo, Garrett, The Landscape We See, McGraw-Hill Book Co., 1969.
ALL. Broad coverage of the diffuse aspects of environmental design, emphasizing the relationship between man and nature while reviewing current landscape architecture.

Institute for Environmental Studies, The Plan and Program for the Brandywine, Institute for Environmental Studies, University of Pennsylvania, 1968.
PB, TO. Location and physical setting of the Brandywine, its use today and plans for the future concerning land use, erosion controls and conservation. Very technical in parts with many graphs and maps showing water flow, land use of shore line, etc. Excellent detailed study.

Jacobs, Jane, The Death and Life of Great American Cities, Vintage Books, Random House, 1961.
PB, ALL. Criticizes current city planning and rebuilding programs. Cites value in mixed neighborhoods and diverse uses of neighborhoods. Attacks the concept that a certain population density automatically results in slums.

Little, Charles E., Challenge of the Land, Open Space Action Institute, 1968.
PB, TO. Develops both the value of open space and methods for its acquisition and preservation in municipal areas.

Mackaye, Benton, The New Exploration, hardback: Harcourt, Brace and Co.; paperback: University of Illinois Press, 1928.
ALL, PO-U. Dated, but still profound development of the philosophy of regional planning; the harmonic use of the land without its destruction.

Milgram, Grace, The City Expands, Government Printing Office, 1967.
PB, TO. Development from rural to urban use of some 5,200 acres of Philadelphia land from 1945 to 1962 indicating in detail the complex factors involved, with particular insight to the patterns of value increase.

U.S. Department of the Interior, Bureau of Outdoor Recreation, Outdoor Recreation Space Standards, Government Printing Office, April 1967.
TO, PO-U. A compilation of recreation area standards and facility space standards being used by many institutions in the U.S.; not a series of federally adopted standards. Each activity space standard is arranged in a useful format. Useful for community, regional, and state planners, and those who seek legislation for improving outdoor space provision.

SOCIAL, POLITICAL, ECONOMIC

Allen, Rodney F., and Charles Adair, Violence and Riots in Urban America, Charles A. Jones Publishing Co., 1969.
ALL. History of riots in America; a detailed analysis of the events of recent American riots and the psychology behind them. Authors feel rioting serves some definite needs of the urban black minority and that some way to meet these needs without rioting must be found. Specific and innovative suggestions.

Appleman, Philip, The Silent Explosion, The Beacon Press, 1966.
PB, TO, PO-U. Population-food problems discussed with much attention to prevalent attitudes which resist the change and revision necessary to solve the problems. The Roman Catholic Church is criticized as is the communist philosophy. The former criticism could be a source of community resistance. Suitable for careful use with 12th grade.

Asbell, Bernard, The New Improved American, Dell Publishing Co., Inc., 1963.
ALL, TO, PO-U. An integrated study of poverty, illiteracy, unemployment, education, and race problems as they relate to and are affected by technology. The necessity of redefining old concepts of society in terms of the reality and potentials of technology.

Augenstein, Leroy, Come, Let Us Play God, Harper and Row, Publishers, Inc., 1969.
ALL, TO, PO-U. Now that it is possible to have transplants of various kinds to prolong life, when is it suitable to allow people to die? What is death? Who has the right to make life-death decisions? What has the population explosion done? How can human population be checked? These questions are investigated and answered.

Barber, Bernard, and Walter Hirsch, eds., The Sociology of Science, The Free Press, 1962.
ALL, PO-U. Explores the social aspects of science, from historical development to social images of scientists. Current studies.

Barbour, Ian G., ed., Science and Religion: New Perspectives on the Dialogue, Harper and Row Publishers. Inc., 1968.
PB, TO, PO-U. Collection of essays which consider the methods of science and religion, evolution and creation, and technology and man. Recommended.

Beirne, B. P., Pest Management, CRC Press, 1967.
TO. Covers pests, controls, protection, destruction; current status of the pest field, and predictions for the future. Use of many approaches as opposed to a single approach. Emphasizes the need for highly trained personnel in all phases.

Berelson, Bernard, and Gary Steiner, Human Behavior: Shorter Edition, Harcourt, Brace and World, Inc., 1967.
TO. Deals with the various areas studied by behavioral scientists, methods used and the kind of knowledge that results.

Bernard, Jessie, The Sex Game, Prentice-Hall, Inc., 1968.
TO. Realistic, readable evaluation of present-day sex habits and attitudes, and coping techniques for male-female contacts.

Birmingham, William, What Modern Catholics Think About Birth Control, The New American Library, Inc., 1964.
TO. A series of articles by Catholic laymen expressing their personal feelings about marriage, birth control, and the Roman Catholic Church.

Bleibtreu, John N., The Parable of the Beast, The Macmillan Co., 1969.
ALL. Discussion of many facets of animal life aimed at a better understanding of man and his relationship to nature. The beginnings of a mythology spawned by science.

Bohannan, Paul, and John Middleton, eds., Marriage, Family and Residence, The Natural History Press, 1968.
PB, ALL. Excellent source book, especially chapters on incest and exogamy. Other very detailed sections on types of marriages such as monogamy and polygamy. Ethnic references for each subject or situation mentioned.

Bollens, John C., and Henry J. Schmandt, The Metropolis: Its People, Politics, and Economic Life, Harper and Row Publishers, Inc., 1970.
TO. Textbook treatment of the many facets of the metropolis: its anatomy, problems, trends and potentials. Possible approaches to problems.

Bronowski, J., Science and Human Values, Harper and Row Publishers, Inc., 1965.
PB, TO. "Truth ... is not different in science and in the arts; the facts of the heart, the bases of personality, are merely more difficult to communicate." Both science and art are viewed as having the same end--that of recreating nature and in so doing revealing "unity in variety."

Bush, Vannevar, Science is Not Enough, William Morrow and Co., Inc., 1967.
ALL, PO-U. A group of essays centered on man and how he must use science, in our computerized age, to edify, and to liberate himself. Optimistic discussions on man's coping with technology. For teachers and upper students.

Carver, Thomas, The Essential Factors of Social Evolution, Harvard University Press, 1935.
TO. Explores the problems of living together in societies by tracing various theories of how men first lived together. The development of the family, the social nature of man, and group control of individual behavior. Useful information on the development of the family. Dated material.

Cole, Dandridge M., *Social and Political Implications of the Ultimate Human Society*, General Electric Corporation, January 18, 1961.
PB, TO. Points out the social and political problems which seem to be implied by technological advances and population growth. Excellent exposé of the threat to individual freedom in booklet form.

Commoner, Barry, *Science and Survival*, The Viking Press, Inc., 1969.
PB, ALL, PO-U. Critical of recent technological advances and their consequences. Severe criticism of scientists who have failed to consider the broad implications of their innovations. Affords the layman a pessimistic view of the world of industry and man's capacity to destroy himself.

Cronbach, Lee J. and Patrick Suppes, eds., *Research for Tomorrow's Schools*, The Macmillan Co., 1969.
PB, TO. Report of the Committee on Educational Research of the National Academy of Education. Designed to give an integrated picture of the entire research enterprise as it relates to education. Special attention to the diversity of functions to be performed and the variety of institutional arrangements and policies needed.

deJouvenel, Bertrand, *The Art of Conjecture*, Basic Books, Inc., 1967.
TO. Discusses logical and political problems of forecasting. Presents methods for studying the future in several disciplines, and the inherent element of error in future studies.

Diebold, John, *Man and the Computer*, Frederick A. Praeger, Inc., 1969.
TO. The influence of technology upon future education, international affairs, and world management. The necessity of anticipating and coping with the constantly changing world that technology is creating.

Dorst, Jean, *Before Nature Dies*, Houghton Mifflin Co., 1970.
TO. Man's impact on nature from the historical point of view.

Edberg, Rolf, *On the Shred of a Cloud*, University of Alabama Press, 1969.
TO, PO-U. Ecological problems seen as a result of man's problem of self-image; man's exploitative behavior with regard to the earth as collective suicide.

Elder, Frederick, *Crisis in Eden*, Abingdon Press, 1970.
TO. Suggests that we seek a way out of the world's crowded conditions by establishing a new religious ethic, with the church as its leader.

Fagley, Richard M., The Population Explosion and Christian Responsibility, Oxford University Press, Inc., 1960.
TO. Detailed review of problems caused by the population explosion. Summary of the Jewish, Eastern Orthodox, Roman Catholic and protestant views toward population control. Includes summary of population education programs supported by churches. Good source but dated.

Farb, Peter, Man's Rise to Civilization, E. P. Dutton & Co., Inc., 1968.
ALL, PO-U. Using Indian cultures of North America, develops cultural evolution from the band through the tribe and chiefdom to the state; the cultural roots extending to the original peopling of North America.

Faris, Robert, and H. Warren Dunham, Mental Disorders in Urban Areas, University of Chicago Press, 1967.
PB, TO. Describes in detail a research study conducted in Chicago in 1939 concerned with the incidence of mental disorder in various areas of a city. Reports that the number of schizophrenics and manic-depressive psychotics are greater in inner-city than in outlying areas. Dated but significant.

Fortune, Editors of, The Exploding Metropolis, Doubleday and Co., Inc., 1958.
TO, PO-U. The history of the growth of cities, why they are in trouble today and how they can be saved. Dated but pertinent. Well written.

Gabel, Creighton, ed., Man Before History, Prentice-Hall, Inc., 1964.
PB, ALL. Collection of articles by different authors interpreting archeological finds as they relate to man's evolution from animal to the modern city dweller. Recommended for teachers and upper students.

Galbraith, John K., The Affluent Society, New American Library, Inc., 1958.
PB, TO. Explores new view of economic theory. Production of material goods as a measure of progress challenged as the gulf between economic classes is diminished. Somewhat erudite and dated.

Galbraith, John K., The New Industrial State, The New American Library, Inc., 1967.
TO. Technical economics in laymen's terms. Impact of the American economic system on life today. The industrial system, past, future and present.

Gottmann, Jean, Megalopolis, M.I.T. Press, 1961.
TO, PO-U. Lengthy, comprehensive analysis of the complex forces that created megalopolis and their implications. Past and present conditions of this area from southern New Hampshire to northern Virginia.

Helmer, Olaf, Social Technology, Basic Books, Inc., 1966.
TO. A methodological treatise on the study of the future. The need for reappraisal of techniques used in social sciences and suggestions for implementation.

Herber, Lewis, Crisis In Our Cities, Prentice-Hall, Inc., 1968.
ALL, PO-M, U. The effect of present urban problems, emotional and physical, on man and speculation on the future of the modern city. Scholarly; pertinent and interesting examples.

Hersh, Seymour M., Chemical and Biological Warfare, The Bobbs-Merrill Co., Inc., 1968.
TO, PO-U. A comprehensive and well-documented investigation of chemical and biological warfare (CBW). Frightening picture of its technology. Worldwide use, history, formulation of U.S. policy, and effects of CBW agents are discussed. CBW activities viewed at military bases, commercial corporations, and universities. The devasting effects it could have on the world's population.

Hinde, Robert A., Animal Behaviour, McGraw-Hill Book Co., Inc., 1966.
TO. Description and classification of animal behavior; detailed studies of causation, development and evolution of behavior.

Horowitz, David, The Abolition of Poverty, Praeger Publishers, 1969.
TO. Includes strategy for global effort against population and poverty. World poverty considered "a superfluous and preventable afflication."

Howard, Ebenezer, Garden Cities of Tomorrow, M.I.T. Press, 1965.
TO. A city planning classic which includes the organizational mechanisms and physical plans of the ideal "Garden City." Contains the original 1898 text and the forewords included in the 1946 edition.

Huxley, Julian, The Human Crisis, University of Washington Press, 1963.
TO, PO-U. Two lectures given at the University of Washington in 1963 dealing with the humanist revolution and the world population problem. Small, very easy to read. Recommended.

Kelley, Robert K., Courtship, Marriage, and the Family, Harcourt, Brace and World, Inc., 1969.
TO, PO-U. A basic college textbook dealing with marriage and the family. Does not deal with sexuality.

Kostelanetz, Richard, ed., Beyond Left and Right, William Morrow and Co., Inc., 1968.
PB, TO. An anthology of innovative ideas; future oriented. Concentrates upon the threats and opportunities implicit in new technologies.

Kramer, Ralph M., Participation of the Poor, Prentice-Hall, Inc., 1969.
PB, TO, PO-U. Deals with the efforts of the Economic Opportunity Council. A case study approach. Not recommended.

Krutch, Joseph W., Human Nature and the Human Condition, Random House, 1959.
TO. Deals with the interaction of human nature in all of its dimensions with the measurable, potentially utopian world which science and technology have created.

Krutch, Joseph W., The Measure of Man, Grosset and Dunlap, Inc., 1968.
PB, TO. A philosophical treatment of man in the "age of anxiety."

Landis, Judson T., and Mary G. Landis, Personal Adjustment, Marriage and Family Living, Prentice-Hall, Inc., 1966.
PO-M. Dating, courtship, marriage, the family and related topics discussed relative to effective present and future living. Questions for review, words and terms, films, problems and activities listed after each chapter. Presents the material with little student involvement. Dated; not recommended.

Lewin, Leonard, Report from Iron Mountain on the Possibility and Desirability of Peace, Dial Press, Inc., 1967.
TO. An exercise on the value of war and the problems of peace. Areas where there is a need for further study are specifically stated.

Lewinsohn, Richard, A History of Sexual Customs, Harper and Brothers, 1958.
TO. Traces the sexual role of women from the beginning of recorded history to the present.

Mannes, Marya, They, Doubleday, 1968.
ALL. A novel dealing with the problems of age in an extremely youth-oriented society. Future projections.

Masters, William and Virginia Johnson, Human Sexual Response, Little, Brown and Co., Inc., 1966.
TO. An 11-year study concerning the physical reactions of the human male and female to sexual stimulation. Medical terms lessen the understanding by general public but results are both interesting and useful for professional counselors and medical doctors.

McCary, James L., *Human Sexuality*, D. Van Nostrand Co., Inc., 1967.
TO. Physiological, sociological and psychological aspects of human sexuality. Very objective.

McKelvey, Blake, *The Urbanization of America: 1860-1915*, Rutgers University Press, 1963.
TO. The major aspects of the urbanization movement to about 1910. Economic and demographic forces, internal civic and political evolution, social and cultural innovations and their development into customs and institutions.

Michelson, William H., *Man and His Urban Environment: Sociological Approach*, Addison-Wesley Publishing Co., 1970.
PB, ALL. Very complete analysis of how the urban environment affects people as individuals and as groups. Explores how the values, social class, physical condition, life style of the individual are affected by urban existence. Scholarly; interesting.

Milbank Memorial Fund Round Table Conference, *The Interrelations of Demographic, Economic and Social Problems in Selected Underdeveloped Areas*, Milbank Memorial Fund, 1954.
TO. Views of various problems in underdeveloped areas. Kingsley Davis' essay "Fertility Control and the Demographic Transition in India" pertinent to population-curriculum study.

Miller, Herman, *Income Distribution in the United States*, U. S. Government Printing Office, 1966.
TO. A monograph on the 1960 census. Analyzes the composition and trends in various selected income groups.

Montagu, Ashley, *Sex, Man and Society*, G. P. Putman's Sons, 1969.
TO. The influence of social and religious customs on sexual morality. Enlightens all aspects of sex and tries to dispel sexual myths. Discusses the role of the school and of the teacher in sex education. Highly readable. A good teacher reference.

Morison, Elting E., *Men, Machines, and Modern Times*, M.I.T. Press, 1966.
PB, TO. The nature of technological change; fission of society resulting from change, and society's reaction in general. Historical approach.

Morris, Desmond, *The Human Zoo*, McGraw-Hill Book Co., Inc., 1969.
TO. Compares human society with behavior patterns exhibited by wild animals in captivity. Main premise is that the human species is not equipped to handle the impersonal environment of large group (city) living as evidenced by neurotic behavior, homosexuality, murder, etc. Detailed discussions of intra- and inter-group relationships, status seeking, imprinting, behavior as a result of seeking or avoiding stimulation, and certain childhood educational practices. An important contribution to understanding human behavior. Written for the general audience and comparable to such books as *The Naked Ape* and *African Genesis*.

Mumford, Lewis, The City in History, Harcourt, Brace and World, Inc., 1961.
ALL, PO-U. Lengthy study of the development and growth of cities. Why men first came to live together in cities, main purposes and the advantages of cities over rural life. A classic and complete study of all kinds of cities including modern megalopolis. Recommended.

Munzer, Martha E., Pockets of Hope, Alfred A. Knopf, Inc., 1967.
ALL. A detailed account of visits to five economically depressed areas which are progressing toward economic stability through community action.

Myrdal, Gunnar, Asian Drama, Random House, Inc., 1968.
TO. An excellent, three-volume study inquiring into the poverty of nations. Volumes 2 and 3 deal with the problems of population size and quality. Very helpful for understanding the moral and religious issues in India.

National Council on Illegitimacy, ed., The Double Jeopardy, The Triple Crisis--Illegitimacy Today, National Council on Illegitimacy, 1969.
TO. Collection of articles concerned with the psychological, social, legal, and institutional aspects of illegitimacy in the U.S. today.

Osborn, Fairfield, ed., Our Crowded Planet: Essays on the Pressures of Population, Doubleday & Co., Inc., 1962.
ALL, PO-M, U. Excellent collection of essays on the problems of increasing populations. Gives the reader a good overall view of the problem and its complexities. Questions the view that science can solve all our problems. Although some of the material is somewhat dated the discussion is general enough to be valid today. References at the end of most essays and a selected reading list at the end of the book. Easy reading for upper middle grade students on.

Packard, Vance, The Hidden Persuaders, Pocket Books, Inc., 1957.
PB, ALL. Deals with factors other than need which influence what we buy.

Packard, Vance, The Waste Makers, hardback: Simon & Schuster, Inc., paperback: Pocket Books, Inc.
PB, ALL, PO-U. The spirit of deliberate waste, its philosophy and practices.

Park, Robert E., On Social Control and Collective Behavior, University of Chicago Press, 1967.
TO. Selected papers include the areas of sociological method, human ecology, social process, and collective behavior.

Planned Parenthood-World Population, The Poverty of Abundance, Planned Parenthood Federation of America, Inc., 1966.
TO. Points out that a rapidly growing population does not lead to rising business profits and a better life for more people. An excellent presentation of the implications to the world business community of the problem of population growth. Booklet.

Polanyi, Michael, The Study of Man, University of Chicago Press, 1959.
PB, TO. A series of 3 lectures delivered at the University of Chicago: "Understanding Ourselves," "The Calling of Man," "Understanding History."

Ress, Etta S., and Gina Liebow, Man Builds Tomorrow, Creative Education Press, 1966.
PO-M. Social studies textbook. Brief history of man from early Egyptian culture to the age of exploration and discovery. Consideration of technology and its impact on man, the importance and worth of American education and a brief look at the problems of underdeveloped countries. Unrealistic, sterile, "American Dream" orientation. Traditional textbook glorification of American society. Not recommended.

Rockefeller Foundation, President's Review 1965, The Rockefeller Foundation, 1965.
PB, TO. Cultural development, conquest of hunger, population problems, etc. Activities of the Foundation are reviewed.

Rockefeller Foundation, President's Review 1966, The Rockefeller Foundation, 1966.
PB, TO. The broad scope of the Foundation's activities provides an interesting source of information.

Rudofsky, Bernard, Streets for People, Doubleday & Co., Inc., 1969.
ALL, PO-U. A well-illustrated study aimed at educating the American people as to their duties as city dwellers in preserving their city streets. Interesting and enjoyable.

Saarinen, Eliel, The City: Its Growth, Its Decay, Its Future, M.I.T. Press, 1966.
PB, ALL. Treats city planning from a historical perspective and offers a plan of organic decentralization as a solution to urban problems. Interesting and informative.

Sampedro, J.L., Decisive Forces in World Economics, World University Library, 1967.
TO. Population explosion, technical acceleration, social change and the resulting systems and trends. Good charts and illustrations. Readable.

Scientific American, Inc., ed., *Cities*, Alfred A. Knopf, Inc., 1969.
PB, ALL. A collection of articles originally in September 1965 issue of *Scientific American* treating origin, growth, transportation problems, and future of cities. Certain cities studied in detail. Good background on city development.

Scientific American, Inc., ed., *Science, Conflict and Society*, W. H. Freeman and Co., 1969.
TO. Science as both the agent and recipient of change. Readings from *Scientific American*. Includes the conflicts of scientists and society, the price of progress, a detailed section on war and the roots of social behavior, and population and heterogeneity.

Siu, R. G. H., *The Tao of Science*, M.I.T. Press, 1957.
PB, TO. "An essay on Western knowledge and Eastern wisdom." A philosophical synthesis of the science-oriented West and the Eastern temperamental philosophy of acceptance.

Snow, C.P., *The Two Cultures: and A Second Look*, Cambridge University Press, 1959.
PB, TO. The cultural separation and lack of communication between scientist and non-scientist. The impact of industrialism is considered. The "Second Look" represents a reconsideration of the original presentation of four years earlier.

Stakman, Elvin Charles, et al., *Campaigns Against Hunger*, Belknap Press of Harvard University, 1967.
TO. 1943 to 1963 in Mexico--a careful delineation of the Rockefeller Foundation's precipitation of agricultural reform. Presented as a realistic approach to one problem area that holds both answers and indications of answers for a world approach to the food problem. Well illustrated.

Steinhart, John S., and Stacey Cherniack, *The Universities and Environmental Quality--Commitment to Problem-Focused Education*, U.S. Government Printing Office, September 1969.
PB, TO. A study of multidisciplinary university programs that deal with environmental problems. Suggest government funding for such programs.

Theobald, Robert, ed., *Dialogue on Technology*, The Bobbs-Merrill Co., Inc., 1967.
PB, ALL. Series of articles concerned with the effect of technology upon modern societies. Broad in scope and technical in nature. Good background information.

Thomlinson, Ralph, *Urban Structure*, Random House, Inc., 1969.
TO. Primary emphasis on ecological matters and the subordination of non-ecological material. Text divided into three major areas: setting the urban scene, how urban areas are arranged, and how urban areas might be arranged.

United Nations Association of the United States of America, World Population, United Nations Association of the U.S.A., 1969.
PB, TO. Report of the National Policy Panel. "A challenge to the United Nations and its system of agencies." Contains numerous recommendations and a particularly good population distribution chart.

U.N. Food and Agriculture Organization, Hunger and Social Policy, Freedom From Hunger Campaign, Basic Study No. 14, UNIPUB, Inc., 1963.
PB, ALL. Deals with international efforts to erase world hunger by reducing that poverty which is caused by unemployment and economic, social and political policy.

U.N. Food and Agriculture Organization (by G. R. Allen and R. G. Smethurst), The Impact of Food Aid on Donor and Other Food-Exporting Countries, UNIPUB, Inc., 1965.
PB, ALL, PO-U. Two fundamental issues: price and income support policies, and structural reforms. Current conditions of supply and demand and their impact on supplier, receiver, and middleman.

U.N. Food and Agriculture Organization (by S. Chakravarty and P. N. Rosenstein-Rodan), The Linking of Food Aid with Other Aid, UNIPUB, Inc., 1965.
PB, TO. The goal of food aid as the fostering of economic development, as well as the relief of hunger. General economic issues and approaches to food aid presented.

U.N. Food and Agriculture Organization, Nutrition and Working Efficiency, Freedom From Hunger Campaign, Basic Study No. 5, UNIPUB, Inc., 1966.
PB, TO, PO-M, U. "There is a vicious cycle that has to be broken; lack of suitable food-undernutrition and malnutrition--low working efficiency--low production of food." A factual treatment of known data about the relation between undernutrition and malnutrition vs. work capacity. Includes charts and graphs. Good example of the data needed in school programs to inform U.S. students of environmental and social issues.

U.N. Food and Agriculture Organization (by Jan Dessau), The Role of Multilateral Food Aid Programs, UNIPUB, Inc., 1965.
PB, TO. Effects, concepts, purposes, development and scope of food aid; the prospects of multilateral aid. Expansion of aid seen as necessary.

U.S. Department of the Interior, The Population Challenge: U.S. Department of the Interior Yearbook No. 2, U.S. Government Printing Office, 1966.
PB, ALL. Discusses the problems of population density as they relate to U.S. growth, increased demands on resources. Effect on resources and planning are covered. Well illustrated.

U.S. Department of the Interior Bureau of Sport Fisheries and Wildlife, Man and Nature in the City, U.S. Government Printing Office, 1968.
PB, ALL. "A feeling-out of the role of nature in our urban environment." Needs, methods of attainment and mistakes are covered in great detail. Report of a symposium.

Vogt, William, People, William Sloane Associates, 1960.
TO. The broad spectrum of problems contingent on population increase. Substantiated by individual situations, conditions and reports.

Von Eckardt, Wolf, The Challenge of Megalopolis, The Macmillan Company, 1964.
PB, TO, PO-M, U. A definition of megalopolis introduces the reader to insights about its development and nature. Outlines the historical reasons for the emergence of megalopolis, as well as the economic and sociological factors characteristic of the area. Highly recommended for use in the middle and upper grades.

Watson, John B., Behaviorism, University of Chicago Press, 1958.
PB, TO, PO-U. A study of the behaviorist school of psychology. Basic and readable textbook format.

Wheeler, Harvey, Democracy in a Revolutionary Era, Center for the Study of Democratic Institutions, 1970.
TO. "World order is not inevitable. It is only necessary." Historical perspective on government and politics. A Center Occasional Paper.

SPECULATIVE

Baier, Kurt, and Nicholas Rescher, eds., *Values and the Future*, The Free Press, New York, 1969.
TO. Eighteen essays representing the informed and sophisticated opinions of a multidisciplinary group. Centered on the areas of interaction between values and technology, in three basic segments: analysis, interaction, control.

Beckwith, Burnham Putnam, *The Next 500 Years: Scientific Predictions of Major Social Trends*, Exposition Press, 1967.
ALL, PO-U. No effort made to deal with technology or scientific advances but rather what social trends would take place based on what have already taken place in the past.

Bell, Daniel, ed., *Toward the Year 2000: Work in Progress*, Houghton Mifflin Co., 1968.
TO. First materials out of the deliberations of the American Academy of Arts and Sciences Commission on the year 2000. Deals with future consequences of present public policies and decisions. Tries to anticipate future problems and to begin the design of alternate solutions, thus giving society a freedom of choice through awareness.

Brown, Harrison, *The Challenge of Man's Future*, Viking Press, 1963.
PB, ALL. Solution of future problems influenced by birth and death rates, consumption rate of finite resources, success of accelerated agricultural production, industrialization of underdeveloped areas, new resources, and avoidance of wars.

Brown, Harrison, *The Next Hundred Years*, Viking Press, 1963.
TO. The future in terms of world population, world food production, natural resources and patterns of agricultural change. Points out the limits which ultimately bind us and the problems which we must face as we approach these limits. Raises several questions which are vital to the future of our civilization. Written in clear terms with a bibliography and a "notes" section.

Calder, Nigel, *Eden Was No Garden*, Holt, Rinehart, and Winston, 1967.
TO, PO-U. Explores the possibilities of increasing food production in the next twenty years to meet the needs of a growing population. Offers some concrete suggestions.

Calder, Niger, ed., *The World in 1984*, Volume I, Penguin Book Co., 1965.
TO, PO-U. A series of short articles by knowledgeable individuals in specific scientific fields. Includes articles, for example, on marine harvests, fuel and agriculture.

Calder, Niger, ed., *The World in 1984*, Volume II, Penguin Books, 1965.

TO, PO-U. Deals with the human mind, health, domestic life, government, education, cities, leisure time, international trade relations. Articles short and somewhat technical.

Chase, Stewart, *The Most Probable World*, Harper and Row, 1968.

ALL. Description of the world and its future. Uses factual material to support statements. Discusses arms race, environmental pollution, the problems and future of our cities, the use of atomic power, the U.N., automation, influence of the automobile. Offers a promising new program of education which can prepare the leaders of the coming generations for coping with the complexities of a dynamically changing society.

Daedalus, Journal of the American Academy of Arts and Sciences, "Utopia," American Academy of Arts and Sciences, Vol. 94, No. 2, 1965.

ALL. An entire issue of the periodical devoted to the discussion of utopia. Writers from diverse backgrounds.

Ethyl Corporation, ed., *Food for America's Future*, McGraw-Hill Book Co., Inc., 1960.

TO, PO-U. Our nation's ability to feed its multiplying millions. Authors recruited from diverse areas feel our country will be able to feed its expected 245 million people in 1975. Slanted to the optimistic view that technology will save us.

Ewald, William R., Jr., ed., *Environment for Man--The Next Fifty Years, Part I*, Indiana University Press, 1967.

TO. Papers for the American Institute of Planners' Fiftieth Year Conference. Physiological, psychological and sociological impact of the physical environment and the contributions of science and the professions toward creating optimum human environments.

Ewald, William R., Jr., ed., *Environment and Change--The Next Fifty Years, Part II*, Indiana University Press, 1968.

TO. Commissioned papers for the American Institute of Planners' Fiftieth Year Conference. Specific considerations of policy in several basic areas of our future society's development, stating what the values of our society appear to be and the nature of future changes which may occur.

Ewald, William R., Jr., ed., *Environment and Policy--The Next Fifty Years, Part III*, Indiana University Press, 1968.

TO. Commissioned papers and their critiques for policy-program recommendations to the American Institute of Planners' Fiftieth-Year Conference. Written by leaders from the fields of education, government, medicine, planning, civil rights, transportation and conservation. Concerned with what needs to be done, how it's to be done and by whom it's to be done.

Farson, Richard E., et al., The Future of the Family, Family Service Association of America, 1969. ✓
PB, ALL. Factors that are pushing and pulling the families of today. Physical, social, philosophical, and behavioral scientists attempt to predict what the family will be like in the year 2000. All view the growth of bureaucracy and impersonality as inevitable.

Feinberg, Gerald, The Prometheus Project, Doubleday and Co., Inc., 1968.
ALL. A call to reconsider where we want the human race to go and what we want it to become, preceded by a concise summary of the scientific view of man in the universe. The "Project" is a method of decision making.

Ferkiss, Victor C., Technological Man: The Myth and the Reality, George Braziller, 1969.
TO, PO-U. Strongly portrays the influence and effects of industrial technology on man and his institutions, and the interrelationship between technology and politics for the last of the twentieth century. Readable. A good source for information regarding the interplay between technology and the social aspects of modern and possible future civilizations.

Foreign Policy Association, ed., Toward the Year 2018, Cowles Education Corp., 1968. ✓
TO, PO-U. Series of articles written by experts in various fields (weaponry, economics, demography, energy, weather, transportation, space, food) concerning predictions of life in 50 years.

Gordon, Theodore, The Future, St. Martin's Press, 1965.
ALL, PO-U. "An extrapolation of today's world into tomorrow." Not science fiction, rather a scientific prediction of possibilities. Covers major problem and wonder areas.

Hardin, Clifford, ed., Overcoming World Hunger, Prentice-Hall, Inc., 1969.
PB, TO, PO-U. Optimistic presentation of man's ability to feed the species with a minimum of effort. Population will adjust to food supply. Flexibility seems to be the solution in this case. Somewhat glosses over nutritional problems as well as growing numbers of people.

Huxley, Aldous, Brave New World, Harper and Row, Publishers, 1946.
ALL. Satirical novel projecting existing trends into the future. Emphasis on breeding and conditioning people for specific roles in the society.

Huxley, Aldous, Brave New World Revisited, Harper and Row, Publishers, 1958.
PB, ALL, PO-U. A look into the future. Concerns the threat to mankind as a result of overpopulation, new schemes of thought control, limited freedom and other dangers.

Jungk, Robert, and Johan Galtung, eds., Mankind 2000, Allen and Unwin, Ltd., 1969.
ALL. Future Research Monograph No. 1 from the International Peace Research Institute, Oslo. Collection of articles concerning international affairs with respect to the future; material and technological development with respect to problems of resource use, food supply, and communication; future educational, social and medical goals and their human implication; and the role of future research.

Kahn, Herman, and Anthony J. Wiener, The Year 2000, Macmillan Co., 1967.
TO. A comprehensive, imaginative picture of the world between now and the year 2000. Projections cover a wide range of topics and include economics, demography, history, political science, sociology,. and the physical sciences. Discussed are such things as genetic manipulation, population growth, education, income, nuclear power and war, technological advances, economic projections, cultural changes, and international politics.

Mayer, Albert, The Urgent Future, McGraw-Hill Book Co., 1967.
TO, PO-U. A leading city planner and architect states the need for action in our disintegrating cities and suggests goals and alternative solutions to today's problems.

McHale, John, The Future of the Future, George Braziller, Inc., 1969.
TO. Investigates a "sense of the future" and then applies this to the past, present, and future. Concludes that the growing crisis in human development affects the whole balance of global ecology.

McIrvine, Edward, et al., Dialogue on Technology, Bobbs-Merrill Co., Inc., 1967.
PB, TO, PO-U. Comprehensive picture of the future of our society. A realistic approach is utilized which involves many aspects of the spirit of technology as envisioned by the various authors.

Meier, Richard, Science and Economic Development--New Patterns of Living, Massachusetts Institute of Technology Press, 1956.
ALL. The need for new foods, new fuels and new patterns of living in the future. Many charts and graphs.

Michael, Donald N., The Next Generation, Vintage Books, 1965.
PB, TO. Those changes that seem especially pertinent for youth development. Areas that will evolve independent of youth, and development of modes of expression.

Michael, Donald N., The Unprepared Society: Planning for a Precarious Future, Basic Books, Inc., 1968.
TO, ALL. "We must educate people to have long-range perspectives, to think in terms of many variables related to each other as probabilities rather than certainties, related as both cause and effect of each other..." A must for teachers.

Murphy, Gardiner, Human Potentialities, Basic Books, Inc., 1958.
TO. "What man may become tomorrow as a result of the choices he makes today." Some of the possibilities from which humanity must and will soon choose.

Paddock, William, and Paul Paddock, Famine--1975!, Little, Brown and Co., 1967.
TO. Basic premise is that famine in our world and country is inevitable and will soon occur. Demolishes the false panaceas that have been held out to us.

Phleger, F., and M. Phleger, You Will Live Under The Sea, Beginner Books, 1966.
ALL, PO-L, M. Science fiction for the beginning reader. Scientifically sound.

Platt, John R., The Step to Man, John Wiley and Sons, Inc., 1966.
TO. A series of original, related essays on the evolving social and intellectual nature of man. Concerned with what man is and what he may become. Touches upon almost every branch of human endeavor: science, education, history, social progress, philosophy, and literature.

Rosenfeld, Albert, The Second Genesis, Prentice-Hall, Inc., 1969.
ALL. Biomedical research, where it may lead and decisions which will be made concerning its direction; implementation of its findings. Deals specifically with resuscitation and increased longevity, biomedical tampering before birth, and control of the brain and behavior.

Schuster, Richard P., ed., The Next Ninety Years, California Institute of Technology, 1968.
PB, ALL. The state of man, cities, waste, water, and the problems of new nations in the next ninety years. A collection of reports and papers presented at an Industrial Associates Conference.

Skinner, B.F., Walden Two, Macmillan, 1948.
PB, ALL. Fantasy of a utopian community which used the technology of the 20th century plus behavioral engineering. Contains Skinner's behaviorism in explicit and implicit terms.

Stulman, Julius, Evolving Mankind's Future, J.B. Lippincott Co., 1967.
TO. Envisions a world institute as solving problems of nuclear warfare, hunger, health, etc. Discusses both an ideological and step-by-step framework for establishing the institute.

Taylor, Gordon R., The Biological Time Bomb, The New American Library, Inc., 1968.
PB, ALL. A realistic appraisal of the impact of the biological revolution on man. In assessing future developments, the author describes previous and on-going research projects in reproduction, transplantation, death control, mind control, genetic engineering, and creation of life. Written for the layman, but a general background in biology aids in understanding. Recommended for high school biology students.

Theobald, Robert, An Alternative Future for America, Swallow Press, Inc., 1968.
TO, PO-U. Affluence in the United States makes "basic economic security" possible. Points out the reasons the educational establishment has been the most resistant to change in the entire United States.

Udall, Stewart, 1976: Agenda for Tomorrow, Harcourt, Brace and World, Inc., 1968.
TO. The ray of hope extending from the current situation is the recognition of the complexity and interrelationship of the problems of society. The author states, "the simple truth is that the size of the human population is really the key to the ultimate control of the quality of the environment." Includes annotated bibliography of related books.

Wall Street Journal, Staff of, Here Comes Tomorrow, Dow-Jones Books, 1967.
PB, ALL. 13 articles on various subjects: population growth, food for an expanding population, computers, air travel, space travel, automated living. Relates how knowledge about these areas can help us plan for the year 2000.

Warshofsky, Fred, New Age of Exploration, Viking Press, 1969.
PO-U. Explores recent technological developments such as the computer, the atom, and the laser to determine how these devices will shape the future. Predicts how man will explore the moon and beyond and what he will find on the ocean floor. Well-illustrated text.

Wyndham, John, The Day of the Triffids, hardback: Doubleday and Co.; paperback: Fawcett Crest, 1951.
PB, ALL. Two factors combine to produce a new environment in which man's future is an ever present problem. Plants which move about and seem to communicate with one another seem to seek the extermination of what remains of mankind. We have in this book an attempt to work through the problem of human adjustment to the earth as an environment hostile to the species. A basis for consideration of the interrelated problems of biology and other areas, e.g., politics, morality. Serious use in school demands a maturity level found at 10th grade and above.

BIBLIOGRAPHIES AND RESOURCE LISTS

American Academy of Pediatrics, Selected References on Sex Education, American Academy of Pediatrics, June, 1965.
Lists of annotations covering books and pamphlets on sex education categorized for children, young teen-agers, older teens and young adults, parents, adults, teachers and counselors.

Beuschlein, Muriel, Free and Inexpensive Teaching Aids for Science Education, Chicago State College Publications Office, 1968.
Fifty-five page categorized listing of materials primarily oriented to Illinois. Some are of general interest.

Blake, Robert R., ed., Family Planning Education Materials: An Annotated Bibliography of Selected Items, Carolina Population Center, September 1969.
Annotations and descriptions of educational materials for public education programs. Materials in three areas: (1) reasons for family planning, (2) methods of family planning, (3) family life education. Excellent source materials for teachers, including booklets and brochures, films and filmstrips, fliers and folders, posters and miscellaneous items.

Carvajal, Joan, and Martha E. Munzer, Conservation Education, Interstate Printers and Publishers, 1968.
Selected bibliography, 70 pages of extensive annotations on books, list of literature and observations, suggested collections, publishers and an author index.

Child Study Association of America, Recommended Reading About Children and Family Life 1967, Child Study Association of America, Inc., 1967.
Title, author, number of pages, date, source, and price precede the annotations in this 39-page list of readings.

Child Study Association of America, Recommended Reading on Sex Education, Child Study Association of America, Inc., (not dated).
Lists of readings for children, young people and adults.

Committee on Moral and Ethical Implications of Population Growth and Control, Annotated Bibliography, Committee on Moral and Ethical Implications of Population Growth and Control, available from University of Delaware, Population Curriculum Study, (not dated).
Numerous sources on population. List of 66 annotated descriptions, primarily for teacher use.

Delaware Conservationist, periodical of the Delaware Game and Fish Commission, "A Guide to Delaware's Natural Environment," Delaware Nature Education Center, Vol. XIII, No. 1, 1968-69. Books, pamphlets, articles, films, film strips, charts and recordings judged to be most useful in learning about Delaware's natural resources. Also lists organizations and agencies offering relevant services.

Edwards, Norman T., Selected Readings in the Marine Sciences, U.S. Naval Oceanographic Office, Fall 1969. 32 pages; rates the books as juvenile, adult, and technical. Separates entries into oceanography, marine biology, marine geology and miscellaneous categories.

Family Life Publications, Marriage and Family Counseling and Teaching Aids, Family Life Publications, Inc., Spring 1969. Most information deals with sex education.

Foreign Policy Association, Intercom, Foreign Policy Association, July-August 1968. Deals with the world population crisis: what it is and where to get information about it. A good section for teachers and interested groups on "teaching about the world population crisis." Lists included on where to get information on population policies and progress, as well as films.

Hahn, Jan, A Reader's Guide to Oceanography, The Woods Hole Oceanographic Institute, 1968. Twenty-one page annotated list. Excellent source of general information.

Kasdon, David, International Family Planning, 1966-1968, A Bibliography, National Institute of Mental Health, 1969. Bibliography surveys recent mental health literature in family planning programs outside the United States.

McAllister, R.F., Career Publications in Oceanography, Florida Atlantic University, Department of Ocean Engineering. Partially annotated list of 20 pamphlets, reprints, lists, bibliographies and books concerned with school selection and the outlook for careers in oceanography.

Minnesota Council on Family Relations, Family Life, Literature, and Films, Minnesota Council on Family Relations, 1970. Bibliography prepared for family life programs, many materials both old and recent. Includes books, pamphlets, periodicals and audio-visual materials. Good source of materials for health and family living teachers, as well as home economics teachers and guidance counselors.

Moore, John A., Science for Society: A Bibliography, American Association for the Advancement of Science, 1970. Excellently categorized listing includes books and articles. Briefly annotated in some instances. Includes a periodical list and list of six "starter" books.

National Coal Association, Free Teaching Aids on Bituminous Coal, National Coal Association Education Division, 1967. Descriptive list of four kits for teachers and five pamphlets for students, all on the subject of bituminous coal.

The National Foundation March of Dimes, Birth Defects: Abstracts of Selected Articles, National Foundation March of Dimes, April 1970. Selected articles relating to birth defects. Periodically issued. Represents a selective survey of available articles.

National Wildlife Federation, Conservation Education Publications, National Wildlife Federation, 1970. Descriptive list of 19 of the Wildlife Federation's publications. Categorized for adult and high school level, and for junior high and elementary level.

New Jersey Cooperative Extension Service, A Partial List of Air Pollution Literature, New Jersey Cooperative Extension Service, (not dated). Includes abstracts, periodicals, books, publishers' addresses.

Nilson, Lawrence, and Nancy Dyar, Resources in Population Education: A Preliminary List, Weston High School, (not dated). Chapters, sections, books, articles, films, and filmstrips with annotations on six mimeographed pages.

Oceanographic Education Center, Oceanography in Print, Oceanographic Education Center, 1968. Carefully annotated, 37-page bibliography of books entered in seven levels of complexity from elementary to adult-technical. Also includes periodicals, articles, films and filmstrips, maps, catalogues and bibliographies up to 1967.

Planned Parenthood Federation of America, Guide to Information Sources: Planning Population and Family, Planned Parenthood Federation of America, 1970. Many up-to-date reference materials published by government organizations. Also lists libraries cooperating in interlibrary loans and addresses of organizations with population education materials available.

Planned Parenthood Federation of America, Paperbacks on Population, Family Planning, Related Subjects, Planned Parenthood Federation of America, 1968.
Birth control, population, studies and surveys in family planning, curriculum materials, religion and birth control. Publishers' addresses listed.

Planned Parenthood Federation of America, Publications About Planned Parenthood, Planned Parenthood Federation of America, 1969.
Annotated list on varied phases of planned parenthood. Includes birth control, family planning, infertility, marriage and family life, family planning and poverty, global and U.S. population, curriculum materials, posters and exhibits.

Planned Parenthood Federation of America, A Small Library in Family Planning for the General Reader, Planned Parenthood Federation of America, 1969.
List of books for the general lay reader and professionals in the field of population studies. Titles listed under population, birth-control methods, religions and birth control, marriage, sex and sex education, the childless couple, abortion and sterilization.

Population Council, Basic Library in Population, Population Council, May 1969.
Bibliographies are not annotated, but place emphasis on population in relation to economic development and migration.

Population Council and the International Institute for the Study of Human Reproduction, Current Publications in Population/Family Planning, Population Council, April through December 1969.
Lists of annotated bibliographies distributed with Studies in Family Planning. Annotations are complete and well done. On such varied subjects as demography and social science, human reproduction and fertility control, family planning programs, and population policy. Recommended for teachers.

Population Reference Bureau, Population Bulletin: A Sourcebook on Population, Population Reference Bureau, Inc., November 1969.
An up-dating of August 1966 bibliography. Divided into two major sections: a population bibliography, and a guide to population organizations and programs. Also includes a glossary of common demographic terms. Annotated list of 430 sources.

Rutgers' Department of Environmental Sciences, Air Pollution Literature, Rutgers' Department of Environmental Sciences, (not dated).
Two-page, mimeographed, check-to-request type list of publications primarily by Rutgers. Some titles of particular interest locally. A "water literature" page added.

Rutgers' Department of Environmental Sciences, A Partial List of Combustion and Incineration References, Rutgers' Department of Environmental Sciences, (not dated).
Gives size, source and cost of 27 references.

San Francisco Unified School District, A Partial List of Family Life Education Reading Materials, San Francisco Unified School District, March 1967.
Sampling of materials available dealing with various aspects of family life education.

Sex Information and Education Council of the United States, Human Sexuality, A Book List for Professionals, SIECUS, 1970.
Alphabetical and by subject. Annotated and classified according to the value to a particular age or group. 56-page pamphlet giving title, author, annotation, publisher, date and cost.

Sierra Club, Air Pollution, Sierra Club, (not dated).
Books, reports, pamphlets, films, newsletters, citizens' groups concerned with air pollution, 32 entries.

Sierra Club, Water Pollution, Sierra Club, (not dated).
35 entries covering a variety of media.

Snyder, Ellie, Environmental Education for Everyone, National Education Association, 1970.
38-page title, source and cost list covers a wide range of related material that should be specifically of value to anyone working in environmental curricula.

Stoker, Alan, Science and Man, Core Bibliography, Santa Fe Preparatory School, 1969-1970.
25-page, mimeographed author, title, source list of books, magazine articles and an occasional newspaper article, categorized.

University of Delaware, Population Curriculum Study, Food, Agriculture, and Hunger, Population Curriculum Study, Spring 1970.
Books and pamphlets listed with author, title, date, and publisher; four mimeographed pages.

U.S. Department of Agriculture, Materials to Help Teach Forest Conservation, U.S. Government Printing Office, 1967.
A seven-page list of materials available free from the forestry services on a single copy basis.

CURRICULUM GUIDES AND LAB MANUALS

Anaheim High School District, Family Life and Sex Education--Grades 7-12, Anaheim Union High School District, 1967.
PB, TO. Develops the idea that the family is the primary source of family life education and that in some homes this area has not been developed.

Arnsdorf, Val, and Richard S. Craddock, Urban-Rural Conceptualization Patterns of Children, University of Delaware, 1969.
PB, TO. A description and evaluation of an instrument designed to measure particular concept patterns.

Bethel School District Number 52, Family Life Education, Bethel School District Number 52, 1966.
PB, TO. A clear discussion of the scope of family life education followed by a teaching outline for a K-12 program emphasizing activities and materials.

Connecticut Demographic Council, Resource Unit on Population Pressure, Connecticut Demographic Council, 1967.
PB, TO. This resource unit provides information for teachers on the problems posed by excessive population growth. An introductory section explains the scope of the problem for the teacher. Inadequate food supply; low standards of living; poor educational facilities; dwindling and/or abuse of natural resources; increased tension between nations and groups within nations; an increasing trespass upon the dignity of the individual are all covered as they relate to population pressure. Suggested teaching materials and lessons follow at lower, middle, and upper school levels. A bibliography included.

Conrad High School, Family Living--Grade 10, Newport School District, 1968.
PB, TO. From mental health to public health with the human systems in between covered in detailed outline form. Sources, activities, problems and objectives in extensive detail.

Contra Costa County Project Development Committee, Recommended Program--Family Life Education, K-12, Educational Planning Center, 1967.
PB, TO. A grade-by-grade teaching outline with selected resource lists drawing from a wide range of sources and kinds of materials.

Cox, George W., Lab Manual of General Ecology, William C. Brown Publishers, 1967.
PB, TO, PO-U. This lab manual emphasizes quantitative and statistical techniques for the analysis of the structure and function of systems of organisms and their environment. A great variety of exercises (each with its own bibliography) designed to test ecological theory and/or to illustrate phenomena of ecological importance.

Emanuelson, Clifford E., and Virginia Emanuelson, *Conservation Quickies*, Interstate Printers and Publishers, 1966.
PB, TO, PO-M. Thirty simple and stimulating activities related to conservation.

Forbes, Lynn, Gerald Thomson, and Donna Turgeon, *An Oceanographic Field Course for the Eighth Grade*, Oceanographic Education Center, 1969.
PB, TO. Six major areas of oceanographic activity are covered in lesson plans that include a general discussion and references. Each plan represents a day's activities.

Hammerman, Donald R., and William M. Hammerman, *Outdoor Education, A Book of Readings*, Burgess Publishing Co., 1968.
TO. The readings are relatively short (6 page maximum), numerous (approximately 85), and cover philosophy, history, mechanics, programs, teacher education, evaluation, and research.

Hinton, Gertrude, *Teaching Sex Education*, Fearon Publishers, Inc., 1969.
PB, TO. Describes methods for teaching sex education in grades 6, 7, and 8. The material is factual but emphasizes the human values worth striving for. Lesson plans, student evaluation questionnaires and teaching resources are included for each of the three grade levels. One chapter is devoted to working with the parents, one to satisfying the administration.

Lauman, Martha, *Getting Ready Time--Preparation for Family Life*, Summit County Board of Education, 1968.
PB, TO. A detailed set of lesson plans for the fifth grade covering human reproduction.

Mark, Steven J., *Source Book of Science Experiments for the Elementary Grades*, Vantage Press, Inc., 1970.
TO, PO-M. A great variety of "easy" experiments requiring minimal equipment. Organized by chapters into subject areas. Well indexed. Valuable as a source or supplement.

Milliken, Margaret, and Austin Hammer, *Field Study Manual for Outdoor Learning*, Burgess Publishing Co., 1968.
PB, TO, PO-U. A comprehensive and detailed manual with procedures clearly delineated for a systematic study of a field sample. Identification aids of value only in specific areas.

Millipore Corporation, *Millipore Experiments in Microbiology*, Millipore Corporation, 1969.
PB, TO, PO-U. This lab manual serves as an introduction to the Millipore equipment and to microbiology. Procedures are carefully sequenced and well illustrated. Emphasis on the presence of microorganisms in the "common life areas."

Montclair Public Schools Development Committee, Education in Human Growth and Development, Montclair Public Schools, 1968.
PB, TO. Interdisciplinary in emphasis, this is broad coverage with a behavioral orientation for a K-12 program.

Newport School District, Family Living--Grades 1-3, Newport School District, 1968.
PB, TO. A plan for home-and-school development of socially acceptable behavior. Emphasis on activity and interpretation.

Newport School District, Family Living--Grades 4-6, Newport School District, 1968.
PB, TO. A resource guide suggesting a wide variety of school-family experiences for building understanding in family relationships. A teaching outline.

Newport School District, Family Living--Grades 7-9, Newport School District, 1968.
PB, TO. A teaching outline with specifically related resources covering the social aspects of family life in the seventh grade, the human body and its systems in the eighth, and a realistic application of the previous work on adolescence. Designed to improve students' ability to cope with the complex problems of communication in the ninth grade.

People and Their Environment Series, Conservation Education, J.G. Ferguson Co., 1969.
PB, TO. Shows the need for conservation. Presents conservation of plant, water, forest, wildlife, soil, and minerals. Attempts to integrate various subject matter areas with the teaching of conservation.

Pramer, David, Life in the Soil, D.C. Heath and Co., 1965.
PB, TO. Provides for the in-depth investigation of life in the soil. Should be treated as a block.

Robotham, Elizabeth B., Living and Learning in the Red Clay Valley, Red Clay Valley Association, Inc., 1968.
PB, TO. A conservation curriculum guide for teachers of grades 1-6. It includes lesson plans in great detail. The activities are useful. This book may serve as a base for a comprehensive conservation unit.

Science Curriculum Improvement Study, Environments, University of California Regents, 1968.
PB, TO. Emphasizes environmental variables such as light, temperature and water. The effects of variations upon organisms are observed and recorded by the students to develop an awareness of the needs and demands of different organisms. Based upon student inquiry and experimentation. Developed for the upper elementary grades.

Science Curriculum Improvement Study, Populations, University of California Regents, 1968.
PB, TO. Teacher's guide and student's workbook. A unit for the primary grades. The concepts of community, predator-prey relationships and food chains are developed through inquiry and experimentation. Workbook is open-ended.

Shaw, Edward I., Laboratory Experiments in Radiation Biology, U.S. Government Printing Office, 1965.
PB, TO, PO-U. The expressed purpose of the manual is to provide a selection of experiments for use in advanced high school and beginning college courses. Experiments demonstrate operation of fundamental principles without requiring extensive or costly equipment.

Slicker, William J., Family Life Education, Fort Madison Community Schools, 1967.
PB, TO. Primary through senior high curriculum guide for sex education.

Spence, Lucile, Critical Stages in Reproduction, Teachers College Press, Columbia University, 1966.
PB, TO. Primarily prototype materials for developing educational plans for those working in secondary areas. Good activities, references and charts.

Stapp, William B., Integrating Conservation and Outdoor Education into the Curriculum (K-12), Burgess Publishing Co., 1967.
PB, TO. Phases in the development, implementation, and evaluation of curriculum designed for infusion into the entire school program. For the curriculum developer.

Stoker, Alan, Science and Ethics, Santa Fe Preparatory School, 1969.
TO. A course designed to increase scientific literacy (as opposed to scientific and technical competence) in our present society.

Stoker, Alan, Science and Man, Santa Fe Preparatory School, 1970.
TO. A 7-12 grade course of study orienting the entire science curriculum to the pressing environmental issues of today.

U.S. Department of Agriculture, Creative Learning Experiences in Conservation, U.S. Government Printing Office, 1970.
PB, TO. A series of reprints from Soil Conservation dealing with a variety of conservation education problems and their solutions.

Walker, Helen, Curriculum Plan for a Course in Family Living, Champaign Community Unit School District Number 4, 1966.
PB, TO. An outline for a family living course emphasizing human development and human relations. Quite detailed.

Weaver, Elbert C., ed., Scientific Experiments in Environmental Pollution, Holt, Rinehart and Winston, 1970.
PB, PO-U. A laboratory manual containing 18 tested experiments related to the pollution of the environment. Designed to create an awareness of the problem.

REFERENCES

Carter, George F., Man and the Land, Holt, Rinehart and Winston, 1964.
TO. Development of man and varied life styles, dealing with three fundamental factors of race, physical environment and cultural forces. Compares regions of similar climatic type around the world. The role of cultural-historical processes. Excellent for geographer and historian.

Clawson, Marion, Man and Land in the United States, University of Nebraska Press, 1964.
ALL, PO-U. Land use in the U.S. from earliest colonial times as background for land use today. Effect of problems of the future on the ordinary citizen, with suggestions on how to influence public decisions.

Ebel, Robert L., ed., Encyclopedia of Educational Research, Macmillan Co., 1969.
TO, ALL. Varied articles on contributions to educational knowledge. Articles are summaries of research and provide references for further study.

Espenshade, Edward B., ed., Goode's World Atlas, Rand McNally, 1968.
ALL, PO-M, U. Recommended for either general student use or for detailed study of a certain area. Graphs showing production of minerals, crops, and agricultural products (livestock). Also contains maps on languages and religions.

Firth, Frank E., ed., Encyclopedia of Marine Resources, Van Nostrand Reinhold Company, 1969.
ALL. Comprehensive, authoritative work on the world's oceanic resources and their enormous possibilities for the future benefit of man. Up-to-date scientific and commercial activities described. Considers future uses of marine resources.

Held, R. Burnell, et al., Soil Conservation in Perspective, Johns Hopkins Press, 1965.
TO, PO-U. Thorough survey of soil conservation progress from the beginning of governmental agencies. Economic aspects of soil conservation. Implications for future use and misuse of soil resources. Excellent.

Kurtz, Seymour, ed., New York Times Encyclopedic Almanac, New York Times Book and Educational Division, 1970.
ALL, TO, PO-L, M, U. Excellent. Statistics on all modern technologies, history of trades, and economics.

McAshan, H.H., Writing Behavioral Objectives: A New Approach, Harper and Row, 1970.
TO. Teacher development of specific behavioral objectives that lend themselves to evaluation.

Rand McNally, New Cosmopolitan World Atlas, Rand McNally and Co., 1968.
ALL. General atlas material with excellent cosmo series (maps) of regions, as might be seen from space, to introduce each section. Well indexed.

Russell, Frederick S., and Maurice Yonge, eds., Advances in Marine Biology, Volume 6, Academic Press, 1968.
TO. A detailed collection of scientific articles dealing with specific localities and/or subjects.

Schmieder, Allen A., et al., A Dictionary of Basic Geography, Allyn and Bacon, Inc., 1970.
PB, TO. Basic terms central to understanding general geography. Terms from cultural, political, economic and physical geography. Annotated bibliography of 37 college texts. Relevant examples. Highly recommended.

Sund, Robert, et al., Elementary Science Discovery Lessons, Allyn and Bacon, 1970.
TO, PO-M. Available in three different issues: physical sciences, biological sciences, and earth sciences. Each issue contains many well-organized lessons, from materials to cognitive objectives.

Thomas, William, et al., Man's Role in Changing the Face of the Earth, University of Chicago Press, 1956.
ALL, TO. Comprehensive in the history and process of man's interaction with the natural environment. Contains predictive analysis of data. Contributors' articles and symposium discussions are lengthy. Extensive bibliographies. Over 200 illustrations and tables. Recommended for population-education libraries, natural science and social science centers. Scholarly.

U.N. Food and Agriculture Organization, Animal Health Yearbook, UNIPUB, 1968.
TO. Tabular information on diseases, species of animals in which the disease was reported, and distribution for each country.

U.S. Department of Health, Education, and Welfare, Education Directory 1968-69: Part 3, Higher Education, U.S. Government Printing Office, 1969.
TO. Comprehensive directory of institutions of higher education, listed alphabetically by state. Characteristics given by code.

U.S. Department of Health, Education, and Welfare, Education Directory 1969-70: Public School Systems, U.S. Government Printing Office, 1970.
TO. Statistical information on the public school systems of the U.S.: distribution, number of pupils, system size, grade span, state size, etc. Names and addresses of superintendents of systems with 10,000 or more pupils by states. General characteristics and names of systems by states.

Wingert, Robert A., Directory of Social Studies Curriculum Projects, Pennsylvania Department of Public Instruction, 1968. TO. Identification of project, directors, addresses, and summary of the projects covering continental U.S. Entries include materials available from projects.

PUBLISHERS AND SOURCES FOR MATERIALS

Abelard-Schuman, Ltd., 257 Park Avenue South, New York, N.Y. 10010

Abingdon Press, 201 8th Avenue, New York, N.Y. 10022

Academic Press, Inc., 111 5th Avenue, New York, N.Y. 10003

Acme Printing and Reproductions, 611 South Maple Road, Ann Arbor, Michigan 48103

Addison-Wesley Publishing Co., Reading, Massachusetts 01867

Agency for International Development, Washington, D.C. 20523

Agricultural Bureau, Edinburgh, Scotland

Aldine Publishing Co., 529 Wabash Avenue, Chicago, Illinois 60605

Allen and Unwin, Ltd., London, England

Allyn and Bacon, Inc., Rockleigh, New Jersey 07647

American Academy of Arts and Sciences, 7 Linden Street, Harvard University, Cambridge, Massachusetts 02138

American Academy of Pediatrics, 1801 Hinman Avenue, Evanston, Illinois 60204

American Association for the Advancement of Science, 1515 Massachusetts Avenue, N.W., Washington, D.C. 20005

American Association of School Administrators, c/o National Education Association of the United States, 1201 Sixteenth Street, N.W., Washington, D.C. 20036

American Astronautical Society, Missile and Space Vehicle Department, General Electric Corporation, 3198 Chestnut Street, Philadelphia, Pennsylvania 19101; or AAS Publications Office, P.O. Box 746, Tarzana, California 91356

American Chemical Society, 1155 Sixteenth Street, N.W., Washington, D.C. 20036

American Elsevier Publishing Co., Inc., 52 Vanderbilt Avenue, New York, N.Y. 10017

American Geographical Society, Broadway at 156th Street, New York, N.Y. 10032

American Public Health Association, Inc., 1740 Broadway, New York, N.Y. 10019

American Society of Agronomy, 677 South Segoe Rd., Madison,
Wisconsin 53711

Anaheim Union High School District, Anaheim, California

Anchor Books, Doubleday and Co., Inc., 501 Franklin Avenue,
Garden City, New York 11530

Appleton Century, Hawthorn Books, Inc., 70 Fifth Avenue, New
York, N.Y. 10011

Appleton-Century-Crofts, Inc., 440 Park Avenue South, New York,
N.Y. 10016

Association for Childhood Education International, 3615 Wisconsin
Avenue, N.W., Washington, D.C. 20016

Atheneum Publishers, 122 E. 42nd Street, New York, N.Y. 10017

Avon Books, Division of Hearst Corp., 959 Eighth Avenue, New
York, N.Y. 10019

Ballantine Books, Inc. 101 Fifth Avenue, New York, N.Y. 10003

Bantam Books, Inc., 666 Fifth Avenue, New York, N.Y. 10019

Basic Books, Inc., 404 Park Avenue South, New York, N.Y. 10016

The Beacon Press, Inc. 25 Beacon St., Boston, Massachusetts 02108

Beginner Books, Division of Random House, Inc., 201 E. 50th Street,
New York, N.Y. 10022

Belknap Press of Harvard University, Cambridge, Massachusetts.

Bethel School District No. 52, 4640 Barger Avenue, Eugene, Oregon
97402

Blaisdell Publishing Co., c/o Ginn and Company, Statler Building,
Back Bay, P.O. Box 191, Boston, Massachusetts 02117

The Bobbs-Merrill Company, 4300 West 62nd Street, Indianapolis,
Indiana 46268

George Braziller, Inc., 1 Park Avenue, New York, N.Y. 10016

William C. Brown Company, 135 South Locust Street, Dubuque, Iowa
52001

Bureau of Technical Assistance, Office of Population;
Washington, D.C. 20523

Burgess Publishing Company, 426 South Sixth Street, Minneapolis,
Minnesota 55415

California Institute of Technology, 1201 East California Boulevard,
Pasadena, California 91109

Cambridge University Press, 32 E. 57th Street, New York, N.Y. 10022

Canfield Press, 850 Montgomery Street, San Francisco, Calif. 94133

Carolina Population Center, University of North Carolina, University Square, Chapel Hill, North Carolina 27514

Center for the Study of Democratic Institutions, Box 4068, 2056
Eucalyptus Hill Road, Santa Barbara, California 93103

Champaign Community Unit School District No. 4, 703 South New St.,
Champaign, Illinois 61820

Chicago State College, Publications Office, 6800 South Stewart Ave.,
Chicago, Illinois 60621

Child Study Association of America, Inc., 9 East 89th Street,
New York, N.Y. 10028

Childrens Press, Inc., 1224 West Van Buren Street, Chicago, Illinois
60607

Citizens' Advisory Committee on Environmental Quality, 1700 Pennsylvania Avenue, N.W., Washington, D.C. 20006

Clearinghouse for Federal Scientific and Technical Information,
U.S. Department of Commerce, Springfield, Virginia 22151

Columbia Books, 917 Fifteenth Street, N.W., Washington, D.C. 20005;
orders to Taplinger Publishing Company, 29 E. 10th Street,
New York, N.Y. 10003

Columbia University Press, 440 West 110th Street, New York, N.Y.
10025

Connecticut Demographic Council, 406 Orange Street, New Haven,
Connecticut 06511

Conservation and Research Foundation, New London, Connecticut

Consumers Union of the United States, Inc., 256 Washington Street,
Mount Vernon, New York 10550

Cornell University Press, 124 Roberts Place, Ithaca, New York 14850

Coward-McCann, Inc., 200 Madison Avenue, New York, N.Y. 10016

Cowles Book Co., Inc., Look Bldg., 488 Madison Ave., New York, N.Y.
10022

The Craig Press, Box 13, Nutley, New Jersey 07110

CRC Press, Division of Chemical Rubber Company, 18901 Cranwood Parkway, Cleveland, Ohio 44128

Creative Education Press, Affiliate of Creative Educational Society, Inc., 500 Kappock Street, Bronx, N.Y. 10463

Creative Educational Society, Inc., same as above.

Thomas Y. Crowell Co., 201 Park Avenue South, New York, N.Y. 10003

Crown Publishers, Inc., 419 Park Avenue South, New York, N.Y. 10016

Delaware Nature Education Center, Box 3900, Greenville, Del. 19807

Delaware State Soil and Water Conservation Commission, Dover, Delaware 19901

Dell Publishing Co., Inc., 750 Third Avenue, New York, N.Y. 10017

Delta Book Company, Dell Publishing Co., 750 Third Avenue, New York, N.Y. 10017

Dembar Educational Research Services, Inc., Box 1605, Madison, Wisconsin 53701

Dial Press, Inc., 750 Third Avenue, New York, N.Y. 10017

Dickenson Publishing Company, Inc.; orders to Wadsworth Publishing Company, Inc., Belmont, Californis 94002

Dodd, Mead and Company, Inc., 79 Madison Avenue, New York, N.Y. 10016

Doubleday and Company, Inc., 501 Franklin Avenue, Garden City, N.Y. 11531

Dow Jones Books, Box 300, Princeton, New Jersey 08540

E.P. Dutton and Co., Inc., 201 Park Avenue South, New York, N.Y. 10003

Educational Planning Center, Contra Costa County Department of Education, 75 Santa Barbara Road, Pleasant Hill, Calif. 94523

M. Evans and Company, Inc.; orders to J.B. Lippincott Company, Washington Square, Philadelphia, Pennsylvania 19105

Exposition Press, Inc., 50 Jericho Turnpike, Jericho, N.Y. 11753

Falmouth Public Schools, Falmouth, Massachusetts 02541

Family Life Publications, Inc., Box 6725, College Station, Durham, North Carolina 27708

Family Service Association of America, 44 E. 23rd Street, New York, N.Y. 10010

Fawcett Crest, Fawcett World Library; orders to Fawcett Publications, Inc., 67 West 44th Street, New York, N.Y. 10036

Fawcett Publishers, Inc., Fawcett Place, Greenwich, Conn. 06830

Fearon Publishers, Inc., 2165 Park Blvd., Palo Alto, Calif. 94306

J. G. Ferguson Publishing Co., 6 N. Michigan Ave., Chicago, Illinois 60602

Florida Atlantic University, Department of Ocean Engineering, Boca Raton, Florida 33432

Food and Agriculture Organization of the United Nations; orders to Unipub, Inc., P.O. Box 433, New York, N.Y. 10016

Foreign Policy Association, 345 East 46th Street, New York, N.Y. 10017

Fort Madison Community Schools, Fort Madison, Iowa 52627

The Free Press, Macmillan Co., 866 3rd Ave., New York, N.Y. 10022

Freeman, Cooper and Company, 1736 Stockton Street, San Francisco, California 94133

W. H. Freeman and Co., 660 Market St., San Francisco, Calif. 94104

General Electric Company, Product Information--Marketing, Missile and Space Vehicle Dept., 3198 Chestnut St., Philadelphia, Pa. 19104

Ginn and Company, Statler Bldg., Back Bay, P.O. Box 191, Boston, Massachusetts 02117

Golden Press, Inc., 850 Third Ave., New York, N.Y. 10022; orders to 1220 Mound Avenue, Racine, Wisconsin 53404

Government Printing Office, Superintendent of Documents, Washington, D.C. 20402

The Stephen Greene Press, P. O. Box 1000, Brattleboro, Vermont 05301

Grosset and Dunlap, Inc., 51 Madison Ave., New York, N.Y. 10010

Harcourt, Brace and Company. See Harcourt, Brace,Jovanovitch, Inc.

Harcourt, Brace and World, Inc. See Harcourt, Brace,Jovanovitch, Inc

Harcourt, Brace, Jovanovitch, Inc., 757 Third Ave., New York, N.Y. 10017

Harper and Brothers. See Harper and Row Publishers, Inc.

Harper and Row Publishers, Inc., 49 E. 33rd Street, New York, N.Y. 10016; orders to Scranton, Pennsylvania 18512

Harper Colophon Books; orders to Harper and Row Publishers, Inc., Scranton, Pennsylvania 18512

Harvard University, Center for Population Studies, School of Public Health, 665 Huntington Ave., Boston, Massachusetts 02115

Harvard University Press, 79 Garden Street, Cambridge, Massachusetts 02138

Hawthorn Books, Inc., 70 Fifth Ave., New York, N.Y. 10011

D. C. Heath and Company; orders to 2700 N. Richardt Avenue, Indianapolis, Indiana 46219

Helicon Press; orders to October House, Inc., 55 West 13th Street, New York, N.Y. 10011

Holt, Rinehart and Winston, Inc., 383 Madison Avenue, New York, N.Y. 10017

Horn-Shafer Company, Baltimore, Maryland

Houghton Mifflin Co., 2 Park Street, Boston, Massachusetts 02107

Hutchinson and Company, Publishers, 178 Great Portland Street, London W1, England

Indiana University Bureau of Business Research, Bloomington, Indiana 47401

Indiana University Press, 10th and Morton Street, Bloomington, Indiana 47401

Institute for Environmental Studies, University of Pennsylvania, 3400 Walnut Street, Philadelphia, Pennsylvania 19104

Institute of International Education, 809 United Nations Plaza, New York, N.Y. 10017

International Planned Parenthood Federation, 18-20 Lower Regent Street, London SW1, England

Interstate Printers and Publishers, 19-27 North Jackson Street, Danville, Illinois 61832

The Izaak Walton League of America, 1326 Waukegan Road, Glenview, Illinois 60025

The John Day Company, 62 West 45th St., New York, N.Y. 10036

The Johns Hopkins Press, Baltimore, Maryland 21218

Charles A. Jones Publishing Company, 698 High Street, Village Green, Worthington, Ohio 43805

W. Junk, Publishers, The Hague, Netherlands

Augustus M. Kelley, Publishers, 1140 Broadway, New York, N.Y. 10001

P. J. Kenedy and Sons, 12 Barclay Street, New York, N.Y. 10008; orders to Macmillan Company, 866 Third Avenue, New York, N.Y. 10022

Alfred A. Knopf, Inc., Random House, Inc., 201 East 50th Street, New York, N.Y. 10022

Lea and Febiger, 600 S. Washington Square, Philadelphia, Pa. 19106

J. B. Lippincott Co., E. Washington Square, Philadelphia, Pa. 19105

Little, Brown and Company, Inc., 34 Beacon Street, Boston, Mass. 02106

Massachusetts Institute of Technology Press. See M.I.T. Press.

The Macmillan Company, 866 3rd Avenue, New York, N.Y. 10022

McGraw-Hill Book Company, Inc., Princeton Road, Hightstown, New Jersey 08520

Melmont Publishers, Inc., Chicago, Illinois

Mentor Books, New American Library of World Literature, Inc., 501 Madison Avenue, New York, N.Y. 10022

Methuen and Company, Ltd., 11 New Fetter Lane, London EC4, England

Milbank Memorial Fund, 40 Wall Street, New York, N.Y. 10005

Millipore Corporation, Bedford, Massachusetts 01730

Minnesota Council on Family Relations, 1219 University Ave., S.E., Minneapolis, Minnesota 55414

M.I.T. Press, 50 Ames Street, Room 741, Cambridge, Massachusetts 02142; orders for Trade Paperbacks to Harper and Row, 49 East 33rd Street, N.Y. 10016

Montclair Public Schools, Montclair, New Jersey 07042

William Morrow and Company, Inc.; orders to 6 Henderson Drive,
West Caldwell, N.J. 07006

National Academy of Sciences, Printing and Publishing Office, 2101
Constitution Avenue, Washington, D.C. 20418

National Catholic Reporter Publishing Company, Kansas City, Mo. 64141

National Coal Association, Education Division, Coal Building,
1150 Seventeenth St., N.W. Washington, D.C. 20036

National Council on Illegitimacy, 44 East 23rd Street. New York,
N.Y. 10010

National Education Association, 1201 Sixteenth St. N.W., Washington,
D.C. 20036

National Educational Television, 10 Columbus Circle, New York, N.Y.
10019

National Foundation-March of Dimes, Supply Division, 800 Second
Avenue, New York, N.Y. 10017

National Health Education Committee, Inc., 866 United Nations Plaza,
New York, N.Y. 10017

National Institute of Mental Health, Chevy Chase, Maryland 20015

The National Observer, Dow Jones and Company, Inc., 11501 Columbia
Pike, Silver Spring, Maryland 20904

National Tuberculosis and Respiratory Disease Association, 1790
Broadway, New York, N.Y. 10019

National Wildlife Federation, 1412 Sixteenth Street, N.W., Washington,
D.C. 20036

Natural History Press; orders to Doubleday and Company, 501 Franklin
Avenue, Garden City, N.Y. 11530

Thomas Nelson, Inc., Copewood and Davis Sts., Camden, New Jersey
08103

The New American Library, Inc., 1301 Avenue of the Americas, New
York, N.Y. 10019. For hardcover books, World Publishing Co.,
110 E. 59th Street, New York, N.Y. 10002

New Jersey Cooperative Extension Service, Department of Environmental Science, Rutgers, The State University, New Brunswick,
New Jersey 08903

The New York Times, Book and Educational Division, 229 W. 43rd Street,
New York, N.Y. 10036

Newman Press, 405 Sette Drive, Paramus, N.J. 07652

Newport School District, Newport Branch, Wilmington, Del. 19804

W. W. Norton and Co., Inc., 55 Fifth Avenue, New York, N.Y. 10003

Oceanographic Education Center, Box 585, Falmouth, Massachusetts
02541, or c/o Falmouth Public Schools.

Open Space Action Institute, 145 East 52nd Street, New York, N.Y.
10022

Oxford University Press, Inc., 1600 Pollitt Dr., Fair Lawn, N.J.
07410

Pantheon Books, Inc.; orders to Random House, Inc., Westminster,
Maryland 21157

Parent and Child Institute, Chicago, Illinois

Parents' Magazine Press, 52 Vanderbilt Avenue, New York, N.Y. 10017

Paulist/Newman Press. See Newman Press.

Penguin Books, Inc., 7110 Ambassador Rd., Baltimore, Md. 21207

Pennsylvania Department of Public Instruction, Box 911, Harrisburg,
Pennsylvania 17108

Philadelphia Electric Company, 1000 Chestnut Street, Philadelphia,
Pennsylvania 19105

Phoenix Books, University of Chicago Press, 5750 Ellis Avenue,
Chicago, Illinois 60637

Planned Parenthood Federation of America, Inc., 515 Madison Avenue,
New York, N.Y. 10022

Planned Parenthood-World Population, same as above.

Pocket Books, Inc.; orders to Simon and Schuster, Inc., 1 West 39th
Street, New York, N.Y. 10018

The Population Council, 245 Park Avenue, New York, N.Y. 10017

Population Curriculum Study, College of Education, University of
Delaware, Newark, Delaware 19711

Population Reference Bureau, Inc., 1755 Massachusetts Avenue, N.W.,
Washington, D.C. 20036

Frederick A. Praeger, Inc. See Praeger Publishers.

Praeger Publishers, a Subsidiary of Encyclopaedia Britannica, Inc., 111 Fourth Avenue, New York, N.Y. 10003

Prentice-Hall, Inc., Englewood Cliffs, New Jersey 07632

Princeton University Press, Princeton, New Jersey 08540

Public Affairs Committee, 381 Park Ave. S., New York, N. Y. 10016

G. P. Putnam's Sons, 200 Madison Ave., New York, N. Y. 10016

Quadrangle Books, Inc., 12 E. Delaware Place, Chicago, Illinois 60611

Rand McNally and Co., Box 7600, Chicago, Illinois 60680

Random House, Inc., Westminster, Maryland 21157

Red Clay Valley Association, Inc., West Chester, Pennsylvania 19380

Reinhold Publishing Co. See Van Nostrand-Reinhold Books.

Resources for the Future, Inc., 1755 Massachusetts Ave., N. W., Washington, D. C. 20036

Rinehart and Company, Inc. See Holt, Rinehart and Winston, Inc.

The Rockefeller Foundation, 111 West 50th St., New York, N. Y. 10020

Rockefeller University Press, York Ave. and E. 66th St., New York, N. Y. 10021

The Ronald Press Co., 79 Madison Ave., New York, N. Y. 10016

Russell Sage Foundation, 230 Park Ave., New York, N. Y. 10017

Rutgers' Department of Environmental Sciences, College of Agriculture and Environmental Sciences, The State University of New Jersey, New Brunswick, New Jersey 08903

Rutgers University Press, 30 College Ave., New Brunswick, New Jersey 08903

St. Martin's Press, Inc., 175 Fifth Ave., New York, N. Y. 10010

San Francisco Unified School District, San Francisco, California.

Santa Fe Preparatory School, P. O. Box 1477, Santa Fe, New Mexico 87501

W. B. Saunders Co., W. Washington Square, Philadelphia, Pennsylvania 19105

Schenkman Publishing Co.; order from Pitman Publishing Corp., 6 East 43rd St., New York, N. Y. 10017

Scholastic Book Services, 50 W. 44th St., New York, N. Y. 10036

Scientists' Institute for Public Information, 30 East 68th St.,
New York, N. Y. 10021

Charles Scribner's Sons; orders to Vreeland Ave., Totowa, N. J. 07512

Sex Information and Education Council of the U. S. See SIECUS.

Sheed and Ward., Inc., 64 University Place, New York, N. Y. 10003

SIECUS, 1855 Broadway, New York, N. Y. 10023

Sierra Club, 1050 Mills Tower, 220 Bush St., San Francisco,
California 94104

Signet Books, New American Library, Inc., 1301 Avenue of the
Americas, New York, N. Y. 10019

Simon and Schuster, Inc., 630 Fifth Ave., New York, N. Y. 10020.
Orders to 1 W. 39th St., New York, N. Y. 10018

William Sloane Associates, Apollo Editions, 425 Park Ave., S.,
New York, N. Y. 10016. Orders to William Morrow and Co., Inc.
6 Henderson Dr., West Caldwell, N. J. 07006.

Smithsonian Institution Press, Washington, D. C. 20560

Spartan Books, 432 Park Ave., S., New York, N. Y. 10016

Summit County Board of Education, 80 W. Center St., Akron, Ohio 44308

Swallow Press, Inc., 1139 S. Wabash Rd., Chicago, Illinois 60605

Teachers College Press, Columbia University, 1234 Amsterdam Ave.,
New York, N. Y. 10027

Theological Studies, Inc., P. O. Box 1703, Baltimore, Maryland 21203

Time-Life Books, Rockefeller Center, New York, N. Y. 10020. Order
from Little, Brown and Co.

UNESCO. Orders to Unipub, Inc.

Unipub, Inc., Box 433, New York, N. Y. 10016

United Nations Association of the U.S.A., Inc. 345 E. 46th St.,
New York, N. Y. 10017. Att: Book Editorial Dept.

United Nations Economic Commission for Asia, Bangkok, Thailand.

U. S. Atomic Energy Commission, Division of Technical Information,
Phillips Bldg., Washington, D. C. 20545

U. S. Department of Agriculture, Independence Ave. between 12th and 14th Sts., Washington, D. C.

U. S. Government Printing Office, Superintendent of Documents, Washington, D. C. 20402

U. S. Naval Oceanographic Distribution Office, U. S. Naval Supply Depot, 5801 Tabor Ave., Philadelphia, Pennsylvania 19120

University of Alabama Press, Mail Drawer 2877, University, Ala. 35486

University of California, Department of History, Davis, California 95616

University of California Press, 2223 Fulton St., Berkeley, Calif. 94720

University of California Regents, Science Curriculum Improvement Study, Lawrence Hall of Science, Berkeley, California 94720

University of Chicago Press, 5750 Ellis Ave., Chicago, Illinois 60637

University of Delaware, Newark, Delaware 19711

University of Delaware, Agricultural Experiment Station, Newark, Delaware 19711

University of Delaware, Population Curriculum Study, College of Education, Newark, Delaware 19711

University of Illinois Press, Urbana, Illinois 61801

University of Kentucky Press, Lexington, Kentucky 40506

University of Michigan Press, 615 E. University, Ann Arbor, Michigan 48106

University of Nebraska Press, 901 N. 17th St., Nebraska Hall 215, Lincoln, Nebraska 68508

University of North Carolina Press, Box 2288, Chapel Hill, North Carolina 27514

University of Pennsylvania Institute for Environmental Studies, 3400 Walnut St., Philadelphia, Pennsylvania 19104

University of Washington Press, Seattle, Washington 98105

The University Press, Glasgow, Scotland.

D. Van Nostrand Co., Inc., 120 Alexander St., Princeton, N. J. 08540

Van Nostrand-Reinhold Books, 450 W. 33rd St., New York, N. Y. 10001

Vantage Press, Inc., 120 W. 31st St., New York, N. Y. 10001

The Viking Press, Inc., 625 Madison Ave., New York, N. Y. 10022

Vintage Books, Inc., Modern Library, Inc., 201 E. 50th St.,
New York, N. Y. 10022; orders to Random House, Inc.,
Westminster, Maryland 21157

Wadsworth Publishing Co., Inc., Belmont, California 94002

Henry Z. Walck, Inc., 19 Union Square W., New York, N. Y. 10003

Washington Square Press, Inc.; orders to Simon and Schuster,
1 W. 39th St., New York, N. Y. 10018

Weston High School, Weston, Massachusetts 02193

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Whitmore Publishing Co., 1809-11 Callowhill St., Philadelphia,
Pennsylvania 19130

John Wiley and Sons., Inc., 605 Third Ave., New York, N. Y. 10016

The Williams and Wilkins Co., 428 E. Preston St., Baltimore,
Maryland 21202

The Woods Hole Oceanographic Institution, Woods Hole, Massachusetts,
02543

World University Library, McGraw-Hill Book Co., Inc., Princeton
Road, Hightstown, New Jersey 08520

Yale University Press, 149 York St., New Haven, Connecticut 06511

Annotated

Periodicals Listing

For Population-Environment Studies

Population Curriculum Study
College of Education
University of Delaware
Newark, Delaware 19711

EXPERIMENTAL MATERIAL
SUBJECT TO REVISION
Draft #2, January 1972

Annotated Periodicals Listing

ABORTION LAW REFORM ASSOCIATION NEWSLETTER: Issued four times a year. It has a narrow scope being concerned only with the progress of abortion law reforms. Although interesting it would be of little value to the classroom teacher. $3.60/yr.

Abortion Law Reform Association
11 Regents Park Rd.
London, NW1
England

AIR AND WATER NEWS: Weekly. A newsletter report on environmental pollution, the law, the markets, and the technology. A good source of current information concerning air and water. Although expensive it is probably one of the most complete newsletters available. $120.00/yr.

McGraw-Hill, Inc.
330 West 42nd Street
New York, N.Y. 10036

AIR POLLUTION ADVISORY: A monthly newsletter designed to inform the public of current developments and events in the area of air pollution. A brief but good source for interested teachers. Free.

College of Agriculture and
Environmental Science
Rutgers University
New Brunswick, N.J. 08903

AIR AND WATER POLLUTION REPORT: A weekly newsletter. A complete summary of developments in water and air pollution. Expensive but of value to teachers. $90.00/yr.

Business Publishers, Inc.
P. O. Box 1067, Blair Station
Silver Spring, Md. 20910

AMERICA: Weekly. From the Roman Cathol point of view. A great variety of subje Contains book reviews. General reading level, lively style. $5.00/yr.

America Press, Inc.
106 West 56th Street
New York, N.Y. 10019

AMERICAN ANTIQUITY: Quarterly. A scholarly publication of original papers on t archaeology of the New World and related subjects.
$15.00 individual annual membership.

Society for American Archaeology
University of Utah Printing Service
Salt Lake City, Utah 84112

THE AMERICAN BIOLOGY TEACHER: A monthly journal designed to keep the biology teacher informed of the latest developments in his field. A well-written and well-organized publication that is usefu in condensing the wealth of information available. $10.00/yr.

National Assoc. of Biology Teachers
1420 N Street, N.W.
Washington, D.C. 20005

AMERICAN FORESTS: Monthly. "The magazine of forests, soil, water, wildlife, and outdoor recreation." Current Washington news page. Conservation outlook. General reading level. Illustrated b/w and color. $7.50/yr.

American Forestry Assoc.
919 Seventeenth St., N.W.
Washington, D.C. 20006

AMERICAN HERITAGE: Bimonthly. A magazine of history. Frequently carries articles of current environmental significance. Material is well illustrated and readable. $20.00/yr.

American Heritage Publishing Co.
551 Fifth Ave.
New York, N.Y. 10017

THE AMERICAN MIDLAND NATURALIST: A general biological journal published quarterly. It is technical and specific.and would be of more use to a practicing biologist than the biology teacher. Contains a short book review section which is probably the most useful part for teachers. $15.00/yr.
The University of Notre Dame
Notre Dame, Indiana 46556

ANTHROPOLOGY CURRICULUM STUDY PROJECT NEWSLETTER: A seasonal newsletter reports on the plans and activities of the study project. An excellent source of current information on anthropology in the schools. Free.
Anthropology Curriculum Study Project
5632 Kimbark Ave.
Chicago, Ill. 60637

ASA NEWSLETTER: A seasonal publication designed to inform members of the association's activities as well as current developments in abortion law reforms. Free to members.
Association for the Study of Abortion Inc.
120 West 57th St.
New York, N.Y. 10019

ASSOCIATION FOR VOLUNTARY STERILIZATION INC. NEWS: Published quarterly in the form of a newsletter to inform its members of its activities. Of little value to the classroom teacher. Free on request or with donation.
Association for Voluntary Sterilization Inc.
14 West 40th St.
New York, N.Y. 10018

AUDUBON: This journal, published six times a year, has many articles concerned with the natural environment and man's effect on it. Well written and illustrated with excellent photographs. An excellent reference source for use in the classroom by both teacher and pupil. $10.00 /yr.
National Audubon Society
1130 Fifth Ave.
New York, N.Y. 10028

AUDUBON NATURE BULLETIN: A newsletter published irregularly and issued to members of the National Audubon Society. An excellent source of general information on man's impact on his environment. Free to members.
National Audubon Society
1130 Fifth Ave.
New York, N.Y. 10028

THE BAY LEAF: Published ten times during the school year. Primarily oriented to the West Coast, but the discussions and implications are far reaching enough to be of value for any elementary or middle school classroom. $3.00/yr.
The Bay Leaf Corp.
110 N. Castanya Way
Menlo Park, Calif. 94025

BIOLOGICAL CONSERVATION: Quarterly. A rather technical journal, but well written and extremely useful to the conservationist interested in specifics. $14.40/yr. plus $1.20/vol. postage.
Elsevier Publishing Co. Ltd.
22 Ripple Rd., Barking
Essex, England

BIRTH DEFECTS ABSTRACTS OF SELECTED ARTICLES: Monthly. This is a "record of selected articles relating to birth defects published in periodicals in the U.S. and abroad." Clear and concise manner. $7.00/yr.
The National Foundation-March of Dimes
Supply Division
800 Second Ave.
New York, N.Y. 10017

BIOSCIENCE: Bimonthly. Contains editorials and articles useful to both the professional biologist and the biology teacher. Also contains sections on education, "Features in the News" and reviews of current books. $18.00/yr.
American Institute of Biological Sciences
3900 Wisconsin Ave., N.W.
Washington, D.C. 20016

BOBBS-MERRILL REPRINT SERIES (Sociology): Published at varying but frequent intervals. Concerned with sociology in a broad sense but has many articles concerned specifically with population-related topics. $.25-$1.00 each.
Bobbs-Merrill Co. Inc.
4300 W. 62nd St.
Indianapolis, Ind. 46206

BULLETIN STATE OF ALASKA: A newsletter concerned specifically with the oil and gas resources of Alaska. Useful to the classroom teacher and pupil, but limited in scope. Free.
Department Natural Resources
Division Oil and Gas
3001 Porcupine Dr.
Anchorage, Alaska 99504

CALIFORNIA FISH AND GAME: Quarterly. A summary of current wildlife practices and research in California. More specific than other magazines of this type, but still useful to the secondary school teacher. Also has an excellent book review section, however, the books are specialized in their content. Free.
Editor
California Fish and Game
1416 9th St.
Sacramento, Calif. 95814

CBNS NOTES: Published six times a year. Many interesting articles related to the biology of natural systems. An excellent source of information for all teachers. Highly recommended for the school library. Subscription with membership. Price n.a.
Center for the Biology of
Natural Systems
Washington University
Box 1126
St. Louis, Missouri 63130

THE CENTER MAGAZINE: A publication of the Center for the Study of Democratic Institutions. Provides a series of excellent discussions of foreign policies, international as well as national problems, and any other topics in the news forefront. An excellent interpretative source of current information. $15.00/yr.
Fund for the Republic Inc.
2056 Eucalyptus Hill Rd.
Santa Barbara, Calif. 93103

CERES, THE FAO REVIEW: Written in English, French and Spanish. Of interest to anyone interested in the problems of poverty and hunger and what is being done about them. An excellent source of information for the teacher and advanced pupils. $5.00/yr.
Food and Agriculture Organization
of the United Nations UNIPUB
P.O. Box 433
New York, N.Y. 10016

CERTIFIED MILK MAGAZINE: Quarterly. Concerned with milk quality and other nutritional aspects of the product. A good and inexpensive source of information on a specific aspect of food and nutrition. $1.50/yr.

Certified Milk Producers Association of America
405 Lexington Ave.
New York, N.Y. 10017

CF LETTER: An informative monthly newsletter. Specifically concerned with environmental issues, usually offering several views or opinions. A clear, concise and easily read way to keep up with the current developments in environmental science. $6.00/yr.

The Conservation Foundation
1717 Massachusetts Ave., N.W.
Washington, D.C. 20036

CHESAPEAKE REPORT: Published irregularly. An excellent source of information on the Chesapeake Bay area. Of particular interest to teachers interested in current developments in the area. Free.

Chesapeake Bay Foundation Inc.
P.O. Box 209
Annapolis, Md. 21404

CITY: Bimonthly. A "magazine of urban life and environment." Articles written for the layman and illustrated with photographs are concerned with such topics as racism, education, pollution, government, and city planning. $10.00/yr.

National Urban Coalition
2100 M St., N.W.
Washington, D.C. 20037

CLEAN WATER REPORT: A monthly newsletter concerned with conservation, desalination, waste disposal and pollution abatement. An excellent summary of current developments. Overpriced, otherwise recommended for secondary schools or colleges. $24.00/yr.

Business Publishers Inc.
P.O. Box 1067
Blair Station
Silver Spring, Md. 20910

CONSERVATION NEWS: Bimonthly. Presents current ongoing information on pollution problems, generally related to the government and/or wildlife. For the general reader. Free.

National Wildlife Federation
1412 16th St., N.W.
Washington, D.C. 20036

CONSERVATION REPORT: Bimonthly. Primary emphasis is reporting current congressional action on conservation related bills. Free.

National Wildlife Federation
1412 16th St., N.W.
Washington, D.C. 20036

COPES NEWSLETTER: Monthly. Informs its readers of the progress and activities of the study group. A good source of general elementary science information. Not specifically related to population studies. Price n.a.

Conceptually Oriented Program
in Elementary Science
New York University
4 Washington Place
New York, N.Y. 10003

CORNELL SCIENCE LEAFLET: Quarterly. An excellent source of ideas and new techniques for the science teacher. $.25/issue.

N.Y. State College of Agriculture
Cornell University
124 Roberts Plaza
Ithaca, N.Y. 14850

COUNTRY PROFILES: Each issue reviews current population trends, policies and programs for specific countries. Price n.a.

Population Council
245 Park Ave.
New York, N.Y. 10017

DAEDALUS: A quarterly journal. Each issue presents papers on a different aspect of "the field of arts and sciences in contemporary society." Well written, but of little value to the public school teacher. $8.00/yr.

Daedalus Subscription Office
American Academy of Arts and Sciences
280 Newton Street
Brookline Station
Boston, Mass. 02149

DEFENDERS OF WILDLIFE NEWS: A publication of wildlife issues and educational articles that are seldom seen in other sources. A very well written source of information for the classroom teacher as well as the student. A strong effort is made to tell the reader how he can help. A highly recommended source for middle and upper level schools. $5.00/yr.

Defenders of Wildlife
2000 N St., N.W.
Washington, D.C. 20036

DELAWARE BASIN BULLETIN: Monthly newsletter to inform the public of matters concerning the people of the Delaware River Basin. Free.

Water Resources Association of the Delaware River Basin
21 South 12th St.
Philadelphia, Penna. 19107

DELAWARE CITIZENS FOR CLEAN AIR: A monthly newsletter published to inform citizens of air pollution problems and possible solutions in Delaware and the surrounding area. $1.00/yr.

Delaware Citizens for Clean Air
c/o Delaware Tuberculosis and Health Society
1308 Delaware Ave.
Wilmington, Delaware 19806

DELAWARE CONSERVATIONIST: Quarterly. Dedicated to the wise use of our natural resources. Normally published as a short pamphlet and written at a level easily understood by all. A worth while addition to any classroom or library. Free.

Delaware Game and Fish Commission
Attn. Elizabeth T. Clark
Dover, Delaware 19901

DELAWARE NATURE EDUCATION CENTER NEWS: Monthly newsletter to inform its members of the activities of the nature center. Of value to local teachers and others interested in nature education. $3.00/yr.

Delaware Nature Education Center
Brandywine Creek State Park
Rockland, Delaware 19732

DEMOGRAPHY: Quarterly. Provides a sophisticated look at current developments in demography. Not useable to the classroom teacher except as a technical resource. A well organized and well written publication that also has an abstract accompanying each article. $15.00/yr.

Population Association of America
P.O. Box 14182
Benjamin Franklin Station
Washington, D.C. 20044

DESIGN AND ENVIRONMENT: Published quarterly for architects, engineers, city planners, landscape architects and designers, to present information on methods of design and planning that is compatible with man's environment. Of little value to the classroom teacher. $11.00/yr.
Design and Environment
6400 Goldsboro Rd., N.W.
Washington, D.C. 20034

ECCP NEWSLETTER, ENGINEERING CONCEPTS CURRICULUM PROJECT: Published quarterly about "The Man-Made World." Presents a supplemental discussion of the text and project activities related to man's technological development. Also has a short book review section and list of new classroom aids and materials. Free.
ECCP Newsletter
Polytechnic Institute of
Brooklyn
333 Jay St.
Brooklyn, N.Y. 11201

ECOLOGY: Bimonthly. Contains research papers, discussions, and essays pertaining to ecology. Articles tend to be technical and confined to specific topics. Not useful for public school teachers. $18.00/yr.
Ecological Society of America and
the Duke University Press
6697 College Station
Durham, North Carolina 27708

ECOLOGICAL MONOGRAPHS: Quarterly. Each issue contains a series of technical research articles in ecology. $9.00/yr.
Ecological Society of America
P.O. Box 6697, College Station
Durham, North Carolina 27708

ECONOMIC GEOGRAPHY: Published quarterly for those interested in the intelligent utilization of the world's resources. An excellent, but sophisticated source of current information. A good source for the university population environmental resource center, but of less value in a secondary school. $11.50/yr.
Clark University
950 Main St.
Worcester, Mass. 01610

EFFLUENT WATER TREATMENT JOURNAL: A well organized journal concerned with water treatment. Of little value to the classroom teacher unless specifically interested in the technicalities of current methods of effluent water treatment. $9.60/yr.
Thunderbird Enterprises LTD
102 College Rd.
Harrow
Middlesex, England

EKISTICS: Monthly. The study of human settlements. Scholarly and technical abstracts and original articles on the problems and science of human settlements. Scope is global. Many articles are followed by good bibliographies. Would best serve the teacher who is concerned with keeping abreast of research in land use and regional planning. $12.00/yr.
Ekistics
Box 471
Athens 136, Greece

ENVIRONMENT: Published ten times per year. Scholarly but not overly technical articles about environmental problems. Center insert contains up-to-date information. Short book review section. Illustrations and photographs in b/w. $8.50/yr.
Committee for Environmental
Information
438 N. Skinker Blvd.
St. Louis, Missouri 63130

THE ENVIRONMENT MONTHLY: Newsletter to inform people of current developments in environmental design. A good sampling of related information, however, it is overpriced and would be of little value in the secondary school classroom. $35.00/yr.
The Environment Monthly
420 Lexington Ave.
New York, N.Y. 10017

ENVIRONMENT REPORTER: Weekly. Completely details government actions and programs concerning environment. Overpriced. Not of use to classroom teachers. $280.00/yr.
The Bureau of National Affairs, Inc.
1231 25th St., N.W.
Washington, D.C. 20037

ENVIRONMENTAL ACTION: Bi-weekly in newspaper (tabloid) format complete with cartoons. Presents current "action" in the field as well as the current "inaction." $7.50/yr.
Environmental Action, Inc.
2000 P St., N.W.
Washington, D.C. 20036

ENVIRONMENTAL EDUCATION: Quarterly. "Devoted to discovery and dissemination in the emerging field of multidisciplinary conservation communications." Erudite, technical papers. Philosophic thrust toward analysis. $7.50/yr.
Dember Educational Research
Services Inc.
Box 1605
Madison, Wisc. 53701

ENVIRONMENTAL POLLUTION: A quarterly international journal. Presents technical and detailed papers "concerned mainly with the biological effects of pollution." Of little use to the classroom teacher. $15.60/yr.
Elsevier Publishing Co., LTD
Ripple Road, Barking,
Essex, England

ENVIRONMENTAL RESEARCH: Monthly. A journal concerned with technical interrelationships between man and his environment. Of interest but of narrow scope. Detailed and technical. Of little value to anyone not well versed in biomedical ecology. $25.00/yr.
Academic Press Inc.
111 5th Ave.
New York, N.Y. 10003

ENVIRONMENTAL SCIENCE AND TECHNOLOGY: A monthly technical journal of value to the chemist or engineer in this field. Member - $5.00/yr. Nonmember - $7.00/yr.
American Chemical Society
Publications
1155 Sixteenth St., N.W.
Washington, D.C. 20036

ENVIRONMENTAL SPECTRUM: Monthly newsletter. Summarizes results of current research in environmental studies and related activities. Free.
College of Agriculture and
Environmental Science
Rutgers University
New Brunswick, N.J. 08903

EOS: Monthly. Contributions dealing with the interface of all aspects of geophysics with society. Semitechnical reviews of current exciting areas of geophysics. $5.00/yr.
American Geophysical Union
2901 Byrdhill Road
Richmond, Va. 23205

ESCP NEWSLETTER: Monthly. Concerned with activities of the curriculum project. Of value for population environmental education library. Free.
Earth Science Curriculum Project
P.O. Box 1559
Boulder, Colorado 80301

THE FAMILY COORDINATOR: JOURNAL OF EDUCATION, COUNSELING AND SERVICES: Quarterly. Concerned with current research in family relations. Of value in a teaching resource center for general use by faculty and counselors. $10.00/yr.
The National Council
on Family Relations
1219 University Ave. S.E.
Minneapolis, Minn. 55414

FAMILY LIFE: Monthly bulletin containing short articles on family related topics. Also contains book review section and list of current pamphlets and their sources. A good but brief source of information for the teacher resource center. $2.00/yr.
American Institute of
Family Relations
5287 Sunset Blvd.
Los Angeles, Calif. 90027

FAMILY PLANNING PERSPECTIVE: Quarterly. Gives a description and assessment of family planning programs in the U.S. and throughout the world, with emphasis on U.S. population. Persons directly engaged in family planning would benefit from this journal. Of little use to the public school teacher. Free.
Planned Parenthood-World
Population
666 Fifth Ave.
New York, N.Y. 10019

FOOD AND YOUR HEALTH: By Fredrick J. Stare, MD. Weekly. A very limited discussion of food supply and health on a world wide basis. Free.
Fredrick J. Stare and Jane W.
Johnson
Department of Nutrition
Harvard University
Cambridge, Mass. 02138

FROM THE STATE CAPITALS, WATER SUPPLY AND CONTROL DEVELOPMENTS SUMMARIZED: A monthly newsletter. A summary of new legislative and administrative developments in the field, as reported from state capitals and municipalities across the nation. Provides an excellent summary by states that can be extremely useful to the teacher who wishes to be up to date. Free.
Bethune Jones
321 Sunset Ave.
Asbury Park, N.J. 07712

FROM THE STATE CAPITALS, WATER AND AIR POLLUTION ABATEMENT DEVELOPMENTS: Monthly. A summary of "new legislative and administrative developments." Provides an excellent summary by states that can be extremely useful to the teacher wishing to be up to date. Free.
Bethune Jones
321 Sunset Ave.
Asbury Park, N.J. 07712

THE FUTURIST: Bimonthly. Concerned with the future in a broad sense of the word. Of general interest especially to educators. A valuable addition to the social science resource center for both teacher and upper level students. $7.50/yr.
World Future Society
P.O. Box 19285
Twentieth St. Station
Washington, D.C. 20036

THE GEOGRAPHICAL MAGAZINE: Monthly. This British publication contains readable and well illustrated articles concerning geography around the world. Articles are of general interest. Photographs numerous, many in color. $1.00/issue.
New Science Publications
128 Long Acre
London WC2, England

HAWK MOUNTAIN REVIEW: Published monthly for purpose of educating the public about conservation and preservation of wildlife. Of interest to those specifically concerned with wildlife management. $3.00/yr.

Hawk Mountain Sanctuary Assoc.
Rt. 2
Kempton, Pennsylvania 19529

HISTORY AND THEORY: Erudite expositions of individual philosophies of history. Of value for cultural insight. $6.00/ volume.

Wesleyan University Press
Box 1018
Middletown, Conn. 06457

HISTORY TODAY: Monthly. Oriented to specific individuals and brief time intervals. Has an excellent review section. Of greater value in a college social science resource center than in secondary schools. $9.00/yr.

Bracken House
10 Cannon St.
London, EC4, England

THE HUMANIST: Bimonthly. A scholarly journal of ethical concern that attempts to serve as a bridge between theoretical philosophical discussions and the practical applications of humanism to ethical and social problems and the lives of individuals. A few articles pertain directly to population/environmental studies. $4.50/yr.

The Humanist
4244 Ridge Lea Road
Amherst, New York 14226

IMPACT OF SCIENCE ON SOCIETY: Bimonthly. Each volume explores a particular topic concerning the relationship between science and social institutions. Each topic is developed in scholarly articles by approximately ten different authors. $4.00/yr.

United Nations Educational, Scientific and Cultural Organization
Place de Fontenoy
75 Paris, France

INDIANA MAGAZINE OF HISTORY: Primary orientation: political, economic, social and cultural history of Indiana and the Mid-West as well as the general fields of Canadian and American history. Articles specific, detailed and narrow in time. Excellent book review section. $5.00/yr.

Indiana University
10th & Morton St.
Bloomington, Indiana 47401

INTERCOM: Published six times a year, for people interested in education and world affairs. Only occasionally related to population environmental education. Vol. 10 No. 4, July, August 1968 recommended for population education teacher. $5.00/yr.

Foreign Policy Assoc. Inc.
345 East 46th St.
New York, N.Y. 10017

INTERNATIONAL CONCILIATION: Analyzes problems in the field of international organization and relations. Each issue is devoted to a single topic and written by a specialist in the field. An asset to the social science class broad enough in scope to make use of the single topics. $2.75/yr.

Carnegie Endowment for International Peace
Taplinger Publishing Co. Inc.
29 East 10th St.
New York, N.Y. 10003

INTERNATIONAL DEVELOPMENT REVIEW: Monthly. A well organized presentation of articles of wide range. Of particular use in the college population environment library or the teacher resource center but of little value in the secondary school. $7.50/yr.

Society for International Development
1346 Connecticut Ave., N.W.
Washington, D.C. 20036

INTERNATIONAL MIGRATION REVIEW: Published monthly and concerned specifically with migration characteristics. Also contains reviews of other migration literature. $1.75/issue.

Center for Migration Studies
209 Flagg Place
Staten Island, N.Y. 10304

INTERNATIONAL PLANNED PARENTHOOD NEWS: Published monthly, providing reports on world wide developments in the area of population control. $2.00/yr.

International Planned Parenthood Foundation
Western Hemisphere Region Office
51 East 42nd St.
New York, N.Y. 10017

ITEMS: Monthly newsletter containing papers, committee briefs, and publication lists of the SSRC. Free.

Social Science Research Council
230 Park Ave.
New York, N.Y. 10017

THE JOURNAL OF AFRICAN HISTORY: Quarterly, historically oriented. Presents scholarly work of value as detailed background for population and cultural shifts. Contains a good review section on current Afro-Historic Books. $13.00/yr.

Cambridge University Press
32 E. 57th St.
New York, N.Y. 10022

JOURNAL OF THE AIR POLLUTION CONTROL ASSOCIATION: Published monthly and concerned with air quality management. Mostly technical in nature and useful at the college or specialty level only. $25.00/yr.

Air Pollution Control Assoc.
4400 5th Ave.
Pittsburgh, Pennsylvania 15213

THE JOURNAL OF DEVELOPING AREAS: Published quarterly "to stimulate the descriptive, theoretical and comparative study of regional development, past and present with the objective of promoting fuller understanding of man's relationship to the developmental process." Of little value to the secondary teacher except as a specific occasional resource. A good book review section of use to teachers. $6.00/yr.

Western Illinois University
900 West Adams St.
Macomb, Ill. 61455

JOURNAL OF ENVIRONMENTAL HEALTH: Bimonthly. "Dedicated to the betterment of the nation's health through control of the environment." Articles are non-technical to semi-technical and deal with such topics as pollution and environmental degradation in relation to health. $5.00/yr.

National Environmental Health Association
1550 Lincoln St.
Denver, Colorado 80203

JOURNAL OF GEOGRAPHY: Monthly except June, July and August. Contains sections on current geographical research and reviews of newly released books, films and other teaching materials. A valuable addition to a secondary teacher resource center. $12.00/yr.

The National Council for Geographic Education
Rm. 1532
111 W. Washington St.
Chicago, Ill. 60602

JOURNAL OF GEOLOGICAL EDUCATION: Published five times/year. Intended for those engaged in earth science education. Contains articles dealing with curricula, teaching techniques, and subject matter in earth sciences. $8.00/yr.

National Association of
Geology Teachers
Treasurer, NAGT, Dept. of Geology
Earlham College
Richmond, Indiana 47374

JOURNAL OF HOUSING: Published eleven times/ year. Concerned with housing problems, such as modes of construction, location and incomes of the people in the area. Of more use to the contractor or builder, however, it lends insight to the layman into the diffuculties frequently encountered in housing our populations. $8.00/yr.

National Association of Housing
and Redevelopment Officials
The Wetergate Bldg.
2600 Virginia Ave., N.W.
Washington, D.C. 20037

JOURNAL OF THE ILLINOIS STATE HISTORICAL SOCIETY: Thrust of the journal is to specific individuals, incidents, and small time intervals with detailed coverage. Individual membership $5.00/yr.

Illinois State Historical Library
Springfield, Illinois 62706

JOURNAL OF MARRIAGE AND THE FAMILY: Published quarterly as a medium for the presentation of original theory, research interpretation, and critical discussion. A detailed journal of narrow scope. Of great value to someone working directly in the field but of little application in the secondary schools except as an occasional resource. $20.00/yr.

The National Council on Family
Relations
1219 University Ave., S.E.
Minneapolis, Minn. 55414

JOURNAL OF NUTRITION EDUCATION: A quarterly journal devoted to advancing research, education and communications in the field of nutrition education. Contains interesting, informative and easily read articles on nutrition and how the subject might be approached in the classroom. Also contains a review section for books and audio-visual materials related to nutrition. An excellent source of information for the secondary school teacher. $5.00/yr.

Society for Nutrition Education
119 Morgan Hall
University of California Berkeley
Berkeley, Calif. 94720

JOURNAL OF OUTDOOR EDUCATION: Quarterly. A short journal which contains about six articles concerning outdoor education in the U.S. and foreign countries. Would benefit those teachers and administrators who are actually engaged in outdoor education projects. Free.

Taft Field Campus of Northern
Illinois University
Box 299
Oregon, Illinois 61061

JOURNAL OF REPRODUCTION AND FERTILITY: Published nine times a year. Technical medical journal of value only to those concerned with the detailed research going on in the field of reproduction and fertility. $75.00/yr.

Blackwell Science Publisher
Oxford, England

JOURNAL OF SOIL AND WATER CONSERVATION: Bimonthly. Contains readable and not-overly technical articles. Keeps teachers abreast of the latest practices in soil and water conservation. Many articles suitable for research reports for secondary students. $10.00/yr.

Soil Conservation Society
7515 Northeast Ankeny Rd.
Ankeny, Iowa 50021

JOURNAL OF VALUE INQUIRY: Quarterly. "Papers concerning the nature, origin, experience and scope of value in general, as well as more restricted studies concerning problems of values in ethics, social and legal theory and practice, science, aesthetics, and methodology." Scholarly. $8.00/yr.

Martinus Nijhoff
9-11 Lange Voorhout
P.O.B. 269
The Hague, Netherlands

JOURNAL WATER POLLUTION CONTROL FEDERATION: Monthly. "Devoted to the advancement of fundamental and practical knowledge concerning the nature, collection, treatment and disposal of domestic and industrial wastewaters." Excellent source of information both technical and general in nature, however, not of significant value to the classroom teacher. $20.00/yr.

Water Pollution Control
Federation
3900 Wisconsin Ave.
Washington, D.C. 20016

LAND ECONOMICS: Quarterly. Devoted to the study of economic and social institutions. Technical and of narrow scope. An asset to a college level population environmental education resource center provided the basic material was already available. $10.00/yr.

Journals Department 129
University of Wisconsin Press
Box 1379
Madison, Wisconsin 53701

THE LIVING WILDERNESS: Quarterly. Covers international wilderness areas, not just U.S. Includes history and current government action. General reading level. Photographs black and white only. Membership and subscription. $7.50/yr.

The Wilderness Society
729 Fifteenth St., N.W.
Washington, D.C. 20005

MAN ON EARTH (DEFINITIONS AND REDEFINITIONS): Published irregularly as chapters of a book. A unique, subjective, and philosophical approach to human ecology purporting "to evolve a design-theory for Man on Earth." Interesting, but not of use to the classroom teacher. $7.50 for 10 issues.

S.P.R. Charter
Olema, Calif. 94950

MARINE SCIENCE NEWSLETTER: Monthly. Each issue devoted to a specific topic. Price n.a.

Orange County Marine Science
Floating Laboratory
Orange County Superintendent of
Schools Office
1104 West 8th St.
Santa Ana, Calif. 92701

MARITIMES: Published quarterly on a variety of subjects related to the sea, such as air pollution, diving accidents, geology of ocean floor. General reading level. Illustrations. Free.

Graduate School of Oceanography
University of Rhode Island
Kingston, R.I. 02881

MARINE POLLUTION BULLETIN: Monthly. Presents concise reports of current developments in marine pollution and related programs. $8.00/yr.

Macmillan (Journals) Ltd.
Subscription Dept.
Brunel Road, Basingstoke
Hants, England

MEDICAL WORLD NEWS: A weekly newsletter concerned with specific topics in medicine. Short, concise, easily read and of general value to the classroom teacher and pupil. $12.50/yr.
McGraw Hill Publishing Co.
299 Park Ave.
New York, N.Y. 10017

THE MILBANK MEMORIAL FUND QUARTERLY: Concerned with the problems of man. Well organized and presented. Topics are of general interest and concern. Of great value in the population environmental education library. $8.00/yr.
Milbank Memorial Fund
40 Wall St.
New York, N.Y. 10005

MINES BULLETIN: Published monthly to "accelerate the development of the mining industry in Alaska." A good source of specific information for the classroom teacher. Price n.a.
State of Alaska
Dept. Natural Resources
Division of Mines and Geology
P.O. Box 5-300
College, Alaska 99701

MONTHLY REPORT ON WATER CONDITIONS IN DELAWARE: Monthly. A short four-page bulletin with graphs to show precipitation throughout the state, stream flows, ground-water levels, and chlorides in the Delaware River measured at Delaware Memorial Bridge. The amount of water the City of Wilmington draws from the Brandywine Creek is also given. Free.
Delaware Geological Survey
University of Delaware
Newark, Delaware 19711

THE MOUNTAIN LAUREL: A monthly newsletter. Summarizes activities of the club and lists schedules of hikes. $1.00/yr.
Sierra Club, SE Chapter
235 Massachusetts Ave., N.E.
Washington, D.C. 20002

NATIONAL FISHERMAN: Monthly newspaper. Combines Atlantic, Marine Coast and Pacific Fisherman. Classified ads, book reviews, fishing and boating news, boat design. $6.00/yr.
Journal Publications Inc.
66 High Street
Belfast, Maine 04843

NATIONAL GEOGRAPHIC: Monthly. Source of geographic knowledge, research, and exploration. An excellent source of information and photos for teacher and student alike. Recommended for classroom library. $9.00/yr.
National Geographic Society
17th & M Sts., N.W.
Washington, D.C. 20036

NATIONAL GEOGRAPHIC SCHOOL BULLETIN: Published weekly during school year. Contains about five articles aimed at the students' interests. Easily understandable language often illustrated with colorful photographs. An inexpensive yet valuable addition to the classroom or the individual student's library. $2.25/30 issues.
National Geographic Society
17th & M Sts., N.W.
Washington, D.C. 20036

NATIONAL PARKS AND CONSERVATION MAGAZINE: Articles of a general nature. Many excellent black and white photographs. A good addition to a science library on the secondary school level. $10.00/yr.
National Parks and Conservation Association
1701 Eighteenth St., N.W.
Washington, D.C. 20009

NATIONAL REPORTER: Monthly. Concerned with man's population problems and solving them. A portion is devoted to the activities of the Zero Population Growth group. An up-to-date summary of what is going on in population education and control. A good resource for secondary school teacher. $10.00/yr.
Zero Population Growth
367 State Street
Los Altos, Calif. 94022

NATIONAL WILDLIFE: Bimonthly. Readable, non-technical articles about wildlife conservation in the United States. Many color photos. Highly recommended for middle and upper school libraries. Students should find it very interesting. $6.50/yr.
National Wildlife Federation, Inc.
Membership Services
381 W. Center St.
Marion, Ohio 43302

NATURAL HISTORY: Monthly Oct. through May; bimonthly June to Sept. Contains a diversity of interesting, readable articles on such topics as zoology, archeology, ecology, geography. May be used in conjunction with both science and social studies programs. $8.00/yr.
American Museum of Natural History
Central Park West at 79th St.
New York, N.Y. 10024

NATURAL RESOURCES JOURNAL: Quarterly. Concerned only with topics related to our natural resources with the exception of a section on New Mexico. Also contains a section entitled "Comments" which gives quick discussions of resource related topics currently in the news forefront, and a book review section. Of significant value to anyone working in population environmental education at any level. $10.00/yr.
West Publishing Co.
50 W. Kellogg Blvd.
St. Paul, Minn. 55102

NCCD NEWS: Published 5 times/year Concerned with crime, its prevention, control and treatment. An excellent source of information for someone working in the area of crime and delinquency. Also useful in the inner-city schools and as a general source of information. $2.25/yr.
National Council on
Crime and Delinquency
44 East 23rd St.
New York, N.Y. 10010

THE NELS NEWSLETTER: Published irregularly. Designed to keep one up to date with recent developments in environmental litigation. A specific but good source of information for teachers. Free.
The National Environmental
Law Society
Stanford, Calif. 94305

NEW ENGLAND MARINE RESOURCES INFORMATION PROGRAM: Monthly newsletter. Summary of advancements in marine resources of the Northeast coast. A good source of information but narrow in scope. Free.
University of Rhode Island
Narragansett Bay Cmapus
Narragansett, R.I. 02882

NEWS AND VIEWS: Monthly newsletter. Contains current articles concerning topics related to the environmental sciences. Of great value to the classroom teacher. Free.
Bureau of Conservation and
Environmental Science
College of Agriculture
Rutgers State University
New Brunswick, N.J. 08903

NUTRITION REVIEWS: Monthly. A summary of major articles published in the area of nutrition. An excellent "quick" source of up-to-date information for the teacher concerned with technical research in nutrition. $5.00/yr.

The Nutrition Foundation, Inc.
99 Park Ave.
New York, N.Y. 10016

NUTRITION TODAY: Sent quarterly without charge to educators in nutrition-related fields. A good source of information on current research in nutrition today and from the historical point of view. An excellent reference for any classroom or library. Free.

Enloe, Stalvey and Associates
1140 Connecticut Ave., N.W.
Washington, D.C. 20036

OCEANS: Bimonthly. For the general reader. Covers a diversity of topics about oceans such as ships, new technical developments, recreation, and animal life. Some articles pertain to ecological aspects. Photographs are plentiful and many are in color. $12.00/yr.

Oceans Publishers Inc.
7075A Mission Gorge Road
San Diego, Calif. 92120

OIL AND GAS JOURNAL: Weekly. Gives many current news items, research and summaries of the activities of the industry. An excellent source of information for the college level population-environment education library. $9.00/yr.

The Petroleum Publishing Co.
211 S. Cheyenne
Tulsa, Oklahoma 74101

OPTIMA: Quarterly. A general magazine of high quality often publishing articles concerned with man's population or his environment. An excellent source of information and materials (mainly pictures) for the classroom. $2.80/yr.

Anglo American Corporation
29th Floor
280 Park Ave.
New York, N.Y. 10017

OUR PUBLIC LANDS: Quarterly. This small magazine, organ of the Bureau of Land Management, contains news, history and human interest articles concerning "our public lands." $1.00/yr.

U.S. Governmant Printing Office
Washington, D.C. 20402

PAA AFFAIRS: Quarterly newsletter informing members of PAA actions and programs. Membership $20.00/yr., includes PAA Affairs, Population Index, and Demography.

Population Association of
America, Inc.
Box 14182
Benjamin Franklin Station
Washington, D.C. 20044

PARKS AND RECREATION: Monthly. Contains articles on outdoor recreation aimed primarily at the person directly engaged in this field. Articles are illustrated with many photographs and are very readable. $7.50/yr.

National Recreation and Park
Association
1700 Pennsylvania Ave., N.W.
Washington, D.C. 20006

PENNSYLVANIA GAME NEWS: Monthly. An informative publication concerned with educating people to good wildlife practices. Can be quickly and easily read and understood. An excellent source of information for any classroom or library. $1.50/yr. $4.00/3 yrs.

Pennsylvania Game Commission
South Office Bldg.
P.O. Box 1567
Harrisburg, Pa. 17120

PEST CONTROL: Monthly. Specifically concerned with materials and methods currently being used in man's war against pests of all sorts. An excellent source of specific information but of little value to the classroom teacher. $5.00/yr.

Harvest Publishing Co.
9800 Detroit Ave.
Cleveland, Ohio 44102

THE PHILOSOPHY FORUM: Quarterly. Articles of philosophical significance on problems of direct human concern. Each issue contains three scholarly papers--one thesis and two countertheses. $6.50/yr.

Northern Illinois University
Dekalb, Illinois 60115

THE PHYSICS TEACHER: Published nine times/year. Intended for physics teachers of all levels who are teaching introductory courses. Articles are about physics curricula and teaching techniques. $5.00/yr.

Subscription Fulfillment Manager
American Institute of Physics
335 E. 45th St.
New York, N.Y. 10017

PLAYBOY: Monthly. Occasionally includes readable and informative articles by eminent authors dealing with population/environment problems and developments. $10.00/yr.

HMH Publishing Co.
919 N. Michigan Ave.
Chicago, Illinois 60611

POLLUTION ABSTRACTS: Published six times a year. Abstracts, articles and materials related to the topic of environmental pollution. Extremely well written and organized. An excellent source of information for the classroom teacher and a highly recommended journal for all secondary school and college libraries. $35.00/yr.

Pollution Abstracts
P.O. Box 2369
LaJolla, Calif. 92037

POPULATION: Published only in French. Concerned with all aspects of population dynamics. $3.00/yr.

L'Institut National d'Etudes
Demographiques
23 Ave. Franklin-Roosevelt
Paris Ville, France

POPULATION BULLETIN: Published six times a year "to provide and interpret facts of population change and to relate them to world affairs." An excellent source for any teacher concerned with population problems on a world wide basis. Free.

Population Reference Bureau
1755 Massachusetts Ave., N.W.
Washington, D.C. 20036

POPULATION CHRONICLE: A newsletter published monthly in an effort to keep the general public informed about demography and family planning. Free.

Population Council
245 Park Ave.
New York, N.Y. 10017

POPULATION CRISIS: Specifically oriented newsletter periodically published by the nonprofit Population Crisis Committee. Contains "news" type material on population problems. Free.

Population Crisis Committee
1730 K St., N.W.
Washington, D.C. 20006

POPULATION INDEX: Contains papers, statistics and annotated bibliographic material. Well indexed. $15.00/yr.

Office of Population Research
Princeton University
Princeton, N.J. 08540

POPULATION NEWSLETTER: Published by the United Nations quarterly. Summarizes the activities of the United Nations in population and related fields. An excellent source of information for the classroom teacher. Free.

Economic and Social Information Unit
Rm. 250
United Nations, N.Y.

POPULATION PROFILE: Pamphlet published occasionally containing articles on population trends and recent statistics. A good reference for the teacher who is working with population environmental education. $.25/issue.

Population Reference Bureau
1755 Massachusetts Ave., N.W.
Washington, D.C. 20036

POPULATION REVIEW: Published twice a year, a review of articles concerned with demography. $4.00/yr.

Indian Institute for Population Studies
Gandhinagan
Madras 20, India

POPULATION STUDIES: Title is self-evident. Contains recent relevant studies. Book review section is international in coverage. $12.50/yr.

Population Investigation Committee
London School of Economics
Houghton St.
Aldwych, London WC2, England

THE POTOMAC NEWSLETTER: Monthly. Contains information concerning the future of communities of the Potomac River Basin, with emphasis on environmental programs. Free.

Potomac Basin Center
1717 Massachusetts Ave., N.W.
Washington, D.C. 20036

PRB BULLETIN; Bimonthly. Devoted to stating and interpreting the facts of the population crisis. $8.00/yr. Teacher rate $5.00/yr.

Population Reference Bureau, Inc.
1755 Massachusetts Ave., N.W.
Washington, D.C. 20036

PRB SELECTION: Issued monthly containing reprints of articles concerned with population and population related problems. An excellent source of information for teachers. $.25/issue.

Population Reference Bureau, Inc.
1755 Massachusetts Ave., N.W.
Washington, D.C. 20036

PROBLEMS OF ECONOMICS: Of value in areas where population studies are concerned with economic development. Recommended for college or specialty level only. $75.00/yr.

International Arts and Science Inc.
901 North Broadway
White Plains, N.Y. 10603

RAMPARTS: A far left social commentary magazine that occasionally carries articles on "the destruction of the environment." Primary purpose to show the "establishment" at fault. $8.50/yr.

Ramparts Magazine Inc.
1940 Bonita Ave.
Berkeley, Calif. 94704

RANGER RICK'S NATURE MAGAZINE: Monthly except June and September. Gives children a "year-round program of activities, adventure and knowledge to help them conserve and wisely use vital natural resources." An extremely valuable addition to any classroom or school library. Also of great value to the individual student. $6.00/yr.

National Wildlife Federation
Ranger Rick's Nature Club
381 West Center St.
Marion, Ohio 43302

REGIONAL STUDIES: International in nature, this journal accepts contributions reflecting the application of a systematic method to the solutions of problems of regional planning. $15.00/yr.

Pergamon Press Inc.
Maxwell House
Fairview Park
Elmsford, N.Y. 10523

RESOURCES: Published three times a year. Intended to "advance the development conservation and use of natural resources through research and education." Contains articles of interest and use to the classroom teacher. Sent only as part of a comprehensive membership in the National Council for the Social Studies. Price n.a.

Resources for the Future Inc.
1755 Massachusetts Ave., N.W.
Washington, D.C. 20036

REVIEW OF NUTRITION RESEARCH: Quarterly. Contains reviews and summaries of research information concerning nutrition and foods. An excellent source of related information for teachers. Easily read, brief and to the point. Free.

Borden Inc.
350 Madison Ave.
New York, N.Y. 10017

THE ROCKEFELLER FOUNDATION QUARTERLY. Contains a wide range of articles, some of which may be concerned with demographic studies, physiology of reproduction and other population control and education topics. Free.

Rockefeller Foundation
111 West 50th St.
New York, N.Y. 10020

RODALE'S ENVIRONMENTAL ACTION BULLETIN: Weekly. Concerned with current developments in health and human ecology. Very descriptive, usually offering addresses and names for the people who wish to become "involved." An excellent publication for use in the classroom by both teacher and pupil. Price n.a.

Rodale Press Inc.
Emmaus, Pennsylvania 18049

SALT WATER AQUARIUM: Bimonthly. Provides current and complete information in the marine aquarium field. Narrow in scope, but of great value to the owner of a salt water aquarium. $4.50/yr.
Coral Reef Exhibits
Box 1005 Kendall Dr.
Miami, Florida 33156

SATURDAY REVIEW: Weekly. Contains reviews and articles about books, theater, art, music, dance, movies, and travel. Approximately every fourth week, a supplement appears which is entitled "Environment and the Quality of Life." Articles in this supplement are generally scholarly and emphasize the impact of science on human affairs. Recommended for placement in high school libraries. $12.00/yr.
Saturday Review Inc.
380 Madison Ave.
New York, N.Y. 10017

SCIENCE: Weekly. Deals with the broad spectrum of science in technical language. Occasional articles related to population education. An excellent value as a technical journal. $20.00/yr.
American Association for the
Advancement of Science
1515 Massachusetts Ave.
Washington, D.C. 20005

SCIENCE AND CHILDREN: Monthly Sept. through Dec. and Feb. through May. Contains articles about curriculum developments and teaching techniques for the elementary science teacher. Many articles deal with environmental awareness. $4.00/yr.
National Science Teachers Assoc.
1201 Sixteenth St., N.W.
Washington, D.C. 20036

SCIENCE AND PUBLIC AFFAIRS, BULLETIN OF THE ATOMIC SCIENTISTS: Monthly--ten times a year. An extremely general journal concerned with many interesting and often controversial topics currently in the forefront of the scientific community. Highly recommended for any secondary school or college resource center. $8.50/yr.
Education Foundation for Nuclear
Science
Bulletin of the Atomic Scientists
935 E. 60th St.
Chicago, Ill. 60637

SCIENCE DIGEST: Monthly. Contains many short articles on science which have an appeal to middle and high school students. Recommended as an interest arouser in science, not for serious in-depth study. $5.00/yr.
Hearst Corp.
959 Eighth Ave.
New York, N.Y. 10019

SCIENCE JOURNAL: Monthly. This British journal contains a diversity of detailed but readable articles on science. Some articles pertain to population/environmental issues. $12.00/yr.
IPC Business Press Ltd.
Dorset House
Stamford St.
London SE1, Great Britain

SCIENCE NEWS: Weekly. Designed to keep the layman with a science orientation informed about the latest newsworthy developments in a wide diversity of scientific endeavors. Science teachers should find it particularly useful. Recommended for placement in high school libraries. The latest films and books are briefly reviewed. Many articles concern environmental issues. $7.50/yr.
Science News Service
1719 N St., N.W.
Washington, D.C. 20036

THE SCIENCE TEACHER: Monthly Sept. through May. Contains articles which furnish the science teacher with subject matter, curriculum developments, and teaching techniques. Many articles deal with environmental awareness. Recommended for middle and high school teachers. $10.00/yr.

National Science Teachers Assoc.
1201 Sixteenth St., N.W.
Washington, D.C. 20036

SCIENTIFIC AMERICAN: Monthly. Contains scholarly articles on a diversity of scientific fields. A background in science is necessary for the interpretation of many articles. Contains articles by many of the world's most eminent scientists. Useful in keeping abreast of scientific inquiry. Upper level high school students find it valuable for research reports. Highly recommended for high school libraries. Some articles have direct bearing on population/environmental issues. $10.00/yr.

Scientific American Inc.
415 Madison Ave.
New York, N.Y. 10017

SCSA CONSERVOGRAM: Quarterly. A report of the activities of the organization. Contains some articles on the conservation of our soil resources, but generally of little value to the classroom teacher. Free.

Soil Conservation Society of America
7515 N.E. Ankeny Rd.
Ankeny, Iowa 50021

SEA FRONTIERS: Bimonthly. Contains articles of a general nature about diverse aspects of marine biology and oceanography. Well illustrated with black and white photographs. Highly recommended for middle and upper school libraries. Interesting and very readable. $7.50/yr. with Sea Secrets.

International Oceanographic Foundation
10 Rickenbacker Causeway
Virginia Key
Miami, Florida 33149

SEA GRANT 70's: A monthly newsletter. Designed to inform consumers about marine resource topics of the National Sea Grant Program. Each issue is devoted to a different aspect of the program and includes a comprehensive bibliography. Free.

Office of the Sea Grant Program
Texas A&M University
College Station, Texas 77843

SEA SECRETS: Monthly. A short publication of brief articles for the layman about marine biology and oceanography. Suitable for middle and high school libraries or classrooms. $7.50/yr. with Sea Frontiers.

International Oceanographic Foundation
10 Rickenbacker Causeway
Virginia Key
Miami, Florida 33149

SIECUS NEWSLETTER: Organ of Sex Information and Education Council of the U.S. Notable editorials, news accounts, book and magazine articles, and sources of materials relative to sex education. $4.50/yr. (4 issues)

SIECUS Publications Office
1825 Willow Rd.
Northfield, Ill. 60093

SIERRA CLUB BULLETIN: Monthly. Contains articles written for the layman about the preservation of wilderness, wildlife, forests, and streams. Activities of the club are summarized. Governmental action (or inaction) on conservation issues is described. $5.00/yr.
Sierra Club
1050 Mills Tower
San Francisco, Calif. 94104

SMITHSONIAN: A new monthly magazine of man, his environment, sciences, arts, adventure, follies and fortunes. Well illustrated, interesting and informative writing. $10.00/yr.
Smithsonian Associates
900 Jefferson Dr.
Washington, D.C. 20560

SOCIAL BIOLOGY: Quarterly. "Papers consider biological and socio-cultural factors affecting human populations, their structure and composition." $12.00/yr.
American Eugenics Society
University of Chicago Press
5750 Ellis Ave.
Chicago, Ill. 60637

SOCIAL EDUCATION: Monthly, except June through Sept. Presents new developments and curricula in social sciences education. Contains sections reviewing new books, pamphlets and audio visual aids. Of great value to the teacher of social sciences at any level. $10.00/yr.
Social Education
1201 Sixteenth St., N.W.
Washington, D.C. 20036

SOCIAL SCIENCE QUARTERLY: Current papers in the field of social studies. Of value in noting philosophic trends. $9.00/yr. (institutional). $6.00/yr. (individual)
Southwestern Social Science Assoc.
and the University of Texas
Box 7819, University Station
Austin, Texas 78712

SOIL CONSERVATION: Monthly. Concerned with the wise use of land and water resources. An excellent source of information for the classroom teacher. $2.00/yr.
Superintendent of Documents
Government Printing Office
Washington, D.C. 20402

SOIL CONSERVATION SOCIETY OF AMERICA: A newsletter published monthly to inform people of the activities of the society. Not of general interest to the classroom teacher. Free.
Soil Conservation Society of
America
6810 Market St.
Upper Darby, Penna. 19082

SOUTH PACIFIC BULLETIN: Current material on many fields in magazine form. Articles on newly developed techniques and areas. Price n.a.
South Pacific Commission
Publications
Bureau GPO Box 5254
Sydney, Australia

STUDIES IN FAMILY PLANNING: Generally issued from six to eight times a year. Contains technical and specific information related to family planning programs on a world wide basis. Free.
Population Council
245 Park Ave.
New York, N.Y. 10017

TECHNOLOGY AND CULTURE: Quarterly. An excellent source of information concerned with the "relations of technology to science, politics, social change, the arts and humanities and economics." An excellent teacher reference. $12.00/yr.
The University of Chicago Press
5750 Ellis Ave.
Chicago, Ill. 60637

TECHNOLOGY REVIEW: Published nine times/year. Contains a wide diversity of articles which explore technological impacts on society. Scholarly, but not too technical. Many articles deal with environmental issues. Could be used by teachers to keep abreast of social - technological developments. $9.00/yr.

Alumi Association of the
Massachusetts Institute of
Technology
Technology Review Room E19-430
Massachusetts Institute of
Technology
Cambridge, Mass. 02139

TIME: A weekly "news" type magazine with a specific section called "Environment." Editorials and articles of significant interest. $15.00/yr.

Time Inc.
Time Life Bldg.
Rockefeller Center
New York, N.Y. 10020

TODAY'S HEALTH: Monthly. Intended for the layman and contains general articles about health. Well-illustrated with photographs and easy to read. $5.00/yr.

American Medical Association
Today's Health
535 N. Dearborn St.
Chicago, Ill. 60610

TRAFFIC ENGINEERING: A trade journal of professional interest. Of general interest in areas where "engineering" impinges on land use and natural resources. A different point of view from that of the population educator. $7.50/yr.

Institute of Traffic Engineers
Editorial Offices
2029 K St., N.W.
Washington, D.C. 20006

TRANSACTION: Monthly. Designed "to further the understanding and use of the social sciences." Many articles are concerned with changes that need to be made in institutions to uplift the lives of poor people, people lacking legal rights, etc. $9.75/yr.

Transaction
Box A
Rutgers-The State University
New Brunswick, N.J. 08903

TURTOX NEWS: Primarily designed to advertise products of General Biological Inc., but it also has articles on teaching techniques for biology teachers. Free.

CCCM: General Biological Inc.
8200 S. Hoyne Ave.
Chicago, Ill. 60620

THE UNESCO COURIER: Monthly for eleven months and available in twelve different languages. Covers a wide range of topics of world-wide interest. Well written. Excellent source for the school classroom. $5.00/yr.

The United Nations Educational
Scientific and Cultural Organization
(UNESCO)
Place de Fontenoy
Paris, France

THE VICTOR-BOSTROM FUND REPORT: Quarterly. The Victor-Bostrom Fund Committee is a fund-raising arm of Planned Parenthood. Many excellent articles on environmental/population issues both in the U.S. and world wide. Authors are well-known and prestigious. Free.

The Victor-Bostrom Fund
1730 K St., N.W.
Washington, D.C. 20006

VISTA: Bimonthly. "Dedicated to non-partisan research and education aimed at making international organizations adequate to the needs of . . ." our age. Articles are scholarly, non-technical, and cover a diversity of scientific and cultural problems facing mankind. A suitable reference source for high school social studies classes. $4.00/yr.

United Nations Association of
the U.S.A., Inc.
833 United Nations Plaza
New York, N.Y. 10017

VITAL ISSUES: A newsletter published ten times a year. Concerned specifically with issues of importance to everyone. These topics may or may not be concerned with population/environmental education or related fields. $3.00/yr.

Center for Information on
America
Washington, Conn. 06793

WAR ON HUNGER: An agency report in magazine form dealing with those activities designed to reduce hunger, i.e. crop improvement, technical developments, population positions. Free.

Legislative and Public Affairs
Agency for International
Development
Room 4953 State Dept. Bldg.
Washington, D.C. 20523

WAR/PEACE REPORT: Monthly, except for June/July and August/Sept., when it is bimonthly. Scholarly articles concerning progress toward the establishment of world peace. Internationalism is stressed. Many articles have a direct bearing on population/environmental studies. $5.00/yr.

Center for War/Peace Studies of the
New York Friends Group, Inc.
218 E. 18th St.
New York, N.Y. 10003

WATER NEWSLETTER: Published twice a month. An excellent source of current information related to water and man's use of it. Expensive for a newsletter (4 pages avg.) but a useful resource for both teacher and pupil. $28.00/yr.

Water Information Center Inc.
44 Sintsink Dr. East
Port Washington, L.I., N.Y. 11050

WATER POLLUTION CONTROL FEDERATION DEEDS AND DATA: Bimonthly newsletter written especially for operational, maintenance and management personnel in water pollution control facilities. It is sent along with Highlights (of WPCF) for $4.00/yr.

Water Pollution Control Federation
3900 Wisconsin Ave.
Washington, D.C. 20016

WATER POLLUTION CONTROL FEDERATION HIGHLIGHTS: A monthly newsletter strictly concerned with the activities and interests of the Federation. Some articles may be of general interest, but there is little of real value for the classroom teacher. $2.00/yr.

Water Pollution Control Federation
3900 Wisconsin Ave.
Washington, D.C. 20016

WATER WELL JOURNAL: An industrial type magazine with information useful to the teacher interested in current trends in man's use of water. An excellent choice for the college level population environmental education library but of little value to the secondary school. $6.00/yr.

National Water Well Association
88 Broad St.
Columbus, Ohio 43215

WORLD HEALTH: Not very technical but dealing primarily with technical-medical material. A specialized magazine. $5.00/yr.
World Health Organization
The American Public Health
Association
1740 Broadway
New York, N.Y. 10019

WORLD OIL: Monthly. Concerned with the oil industry and its future. Useful to someone in the industry itself. Also helpful in the college level population/environmental education library. $4.00/yr.
Gulf Publishing Co.
P.O. Box 2608
Houston, Texas 77001

WORLD POPULATION DATA SHEET: Yearly. Concerned with a world-wide summary of population levels, rates of increase, life expectancy, illiteracy, birth and death rates. A useful reference for the classroom teacher. $.25/issue.
Population Reference Bureau
1755 Massachusetts Ave., N.W.
Washington, D.C. 20036

YOUNG WORLD DEVELOPMENT NEWS LETTER: Monthly newsletter. Contains an editorial section, news shorts, legislative roundup and book and film review sections. An excellent source of information for the teacher interested in population/environmental education. Free.
American Freedom from Hunger
Foundations
1717 H St., N.W.
Washington, D.C. 20006

ZPG NATIONAL REPORTER: Published monthly. Magazine layout on newsprint. Articles related to environment crises, especially population control. Poetry, book reviews, chapter news, letters to editor. Membership and subscription $10.00/yr.
Zero Population Growth, Inc.
367 State Street
Los Altos, Calif. 94022

ZYGON JOURNAL OF RELIGION AND SCIENCE: Quarterly. Scholarly articles which examine the religious significance of scientific endeavor. $8.50/yr.
University of Chicago Press
5750 Ellis Ave.
Chicago, Ill. 60637

16mm FILMS

FOR

POPULATION-ENVIRONMENT STUDIES

PREPARED BY THE

POPULATION CURRICULUM STUDY
UNIVERSITY OF DELAWARE

ROBERT W. STEGNER _ VAL E. ARNSDORF
CODIRECTORS

EXPERIMENTAL

FILM LIST

TABLE OF CONTENTS

Page

TABLE OF CONTENTS 143

INTRODUCTION 144

INDEX OF TOPICS FOR ANNOTATED FILMS 145

TOPICAL INDEX OF ANNOTATED FILMS 146

INDEX OF SOURCES FOR ANNOTATIONS 161

ANNOTATED LIST OF FILMS 163

INDEX OF TOPICS FOR UNANNOTATED FILMS 212

TOPICAL INDEX OF UNANNOTATED FILMS 213

INDEX OF SOURCES FOR DISTRIBUTORS 225

FILM LIST

INTRODUCTION

This list is intended to provide the classroom teacher with a convenient guide to 16 mm films in the field of population-environment education.

This is by no means a complete listing but considerable effort has been made to obtain film titles, annotations, and distributors of those films that complement the conceptual scheme developed by the Population Curriculum Study.

Films listed in the annotated section with but one or two exceptions were selected according to these criteria: the film was produced after 1960; the film is available either free, for rent, or for purchase from the distributor listed; and the film will enhance the development of the concepts. Film costs have not been included because of the wide variety of rental scales.

Many of these films have been previewed by the staff of the Population Curriculum Study but each film should be previewed by the teacher before using it in the classroom. The annotations serve only as a guide to selection.

All annotated films have been cross-indexed. The films without annotations are listed under general categories and appear in this list because they seem to be peripheral to the development of the central concepts. However, there are many fine films listed without annotations.

In the annotated list of films the information in parentheses refers, first, to a number in the Index of Sources for Distributors, see page 224; and second, to the Index of Sources for Annotations, see page 159. For example, (1 - PCS) indicates that the film is distributed by Mass Media Associates and that the Population Curriculum Study annotated the film.

INDEX OF TOPICS FOR ANNOTATED FILMS

Adolescence
Agriculture
Anthropology
Automation
Automobile
Birth Control
Birth Control Information
Birth Control - Legal
Birth Control - Moral
Birth Control - Techniques
Brazil
Citizen's Role
City
City Planning and Urban Renewal
City Problems
Comparative Behavior
Conservation
Earth Science - Physical Geography
Ecological Balance
Ecology
Economics
Energy
Evolution
Family Planning
Food Supply
Geography - Human and Cultural
Heredity and Reproduction
Hunger
India
Land Use
Littering
Marriage
Medical - Health
Nutrition
Peace
Pesticides
Pollution, Air
Pollution, Industrial
Pollution, Landscape
Pollution, Noise
Pollution, Water
Population Demography
Population Problems
Poverty
Prejudice
Resource Management
Sanitation
Sewage Disposal
Slums
Social Problems
Sociology - Social Behavior
Technology
Transportation
United Nations
Urban Renewal
Values
Waste Disposal
Water Resource Management
Wildlife

TOPICAL INDEX OF ANNOTATED FILMS

ADOLESCENCE

Boy to Man, Girl to Woman
Cities - Crime in the Street
Early Marriage

AGRICULTURE

Agriculture, Research and You
Agriculture Story, The
Can the Earth Provide?
Can the World Be Fed?
Challenge to Mankind
Effects of Air Pollution
Farmer - Feast or Famine, The
Food Crisis, The
Food or Famine
Food Revolution, The
Global Struggle for Food, The
Living Soil, The
Making the Desert Green - Irrigation Farming
Mounting Millions, The
Poisons, Pests and People
Population Explosion
Rice
Rival World, The
Tomorrow's World: Feeding the Billions

ANTHROPOLOGY

Baboon Behavior
Early Stone Tools
Miss Goodall and the Wild Chimpanzees
Time of Man, The

AUTOMATION

Automation - The Next Revolution
Automation - What It Is and What It Does

AUTOMOBILE

Abandoned, The
Air of Disaster
Automania 2000
Automobiles - The Great Love Affair
Autos, Autos Everywhere
Beware the Wind
Challenge of Urban Renewal, The
Cities, The: A City Is to Live In
City - Cars or People?, The
Pall Over Our Cities
Poisoned Air, The
With Each Breath

BIRTH CONTROL

Banquet of Life, The
Before They Say "I Do"
Birth Control
Birth Control and the Law
Birth Control, How
Control or Destroy
European Experience, The
Fair Chance
Family Planning
Five Million Women
Food Revolution, The
Gift of Choice, The
Happy Family Planning
Illegal Abortion
India: Writings in the Sand
Japan: Answer in the Orient
Mounting Millions, The
New Facts of Life
People by the Billions
Planned Families
Problem Is Life, The
Questions and Answers About Birth
Regional Report: Birth Control
To Plan Your Family
Tragedy of the Commons, The

BIRTH CONTROL - INFORMATION

Before They Say "I Do"
Beyond Conception
Birds, Bees and Storks
Birth Control
Birth Control and the Law
Fair Chance
Planned Families
Problem Is Life, The
Questions and Answers About Birth
To Plan Your Family

BIRTH CONTROL - LEGAL

Birth Control
Birth Control and the Law
Illegal Abortion

BIRTH CONTROL - MORAL

Birth Control
Birth Control and the Law
Birth Control, How

BIRTH CONTROL - TECHNIQUES

Beyond Conception
Birds, Bees and Storks
Birth Control, How
Illegal Abortion
Planned Families
Problem Is Life, The
Questions and Answers About Birth
To Plan Your Family

BRAZIL

Big City - 1980
Brazil: The Gathering Millions

CITIZEN'S ROLE

Air Pollution: Take a Deep Deadly Breath
Altered Environments: An Inquiry into the American Wildlands
Aqua Folly

CITIZEN'S ROLE (continued)

Beargrass Creek
Beware the Wind
Black and White: Uptight
Conservation: A Job for Young America
Crisis on the Kanawha
Don't Leave It All to the Experts
Let's Clear the Air
Poisoned Air, The
Run-Around, The
Stuff We Throw Away, The
To Clear the Air
Tragedy of the Commons, The
With Each Breath

CITY

Changing City, The
Cities in Crisis: What's Happening...?
City and Its Region, The
City and the Future, The
City - Heaven and Hell, The
Environmental Sanitation
Idea of the City, The
Little Man, Big City
Lots for Sale
Pond and the City, The

CITY PLANNING AND URBAN RENEWAL

Big City - 1980
Challenge of Urban Renewal, The
Changing City, The
Changing Face, The
Cities - The Rise of New Towns
City and the Future, The
City as Man's Home, The
Design for a City
Form, Design, and the City
Green City, The
House of Man: Our Changing Environment
Idea of the City, The
L.A. Too Much
Lots for Sale
Mud

(CONTINUED NEXT PAGE)

CITY PLANNING AND URBAN RENEWAL
(continued)

One Dimension, Two Dimension, Three Dimension, Four
Open Space
Open Space Communities: A New Environment for America
Rebels/271, The: Ecology of Design
Rebirth of a Nation: Story of Urban Renewal
Town Planning
Townscape Rediscovered
Urban Sprawl vs. Planned Growth

CITY PROBLEMS

Air of Disaster
Air Pollution - Everyone's Business
Air Pollution Films
Air Pollution: Take a Deep Deadly Breath
Autos, Autos Everywhere
Beware the Wind
Brazil: The Gathering Millions
Breathe at Your Own Risk
Burn, Bury, or What?
Carnival of Ugly, A
Challenge of Urban Renewal, The
Changing City, The
Changing Face, The
Cities, The: A City Is to Live In
Cities and the Poor, The (Pt. 1)
Cities and the Poor, The (Pt. 2)
Cities - Crime in the Street
Cities in Crisis: A Matter of Survival
Cities in Crisis: Communication
Cities in Crisis: Transportation
Cities in Crisis: What's Happening...?
City and the Future, The
City as Man's Home, The
City - Cars or People?, The
City - Heaven and Hell, The
Crime in the Cities
Day at the Dump, A

CITY PROBLEMS
(continued)

Don't Crowd Me
Don't Leave It All to the Experts
Environmental Sanitation
Green City, The
Heart of the City, The
House of Man: Our Changing Environmen
Idea of the City, The
Ill Winds on a Sunny Day
It's the Only Air We've Got
Let's Clear the Air
Little Man, Big City
Nice Place to Visit - But, A
On A Clear Day You Can Almost See Terminal Tower
One Dimension, Two Dimension, Three Dimension, Four
Open Space
Overload
Overload in the Cities
Pall Over Our Cities
Pandora's Easy Open Pop-Top Box
Poisoned Air, The
Pond and the City, The
Something in the Wind
Squeeze, The
Stuff We Throw Away, The
Third Pollution, The
Town Planning
Treasure in a Garbage Can
Troubled Cities, The
Up to Our Necks: The Garbage Problem
Water Pollution: Can We K[illegible] Our Water Clean?

COMPARATIVE BEHAVIOR

Baboon Behavior
Miss Goodall and the Wild Chimpanzees

CONSERVATION

Agriculture Story, The
All the Difference
Alone in the Midst of the Land

(CONTINUED NEXT PAGE)

CONSERVATION (continued)

Altered Environments: An Inquiry Into the American Wildlands
Applied Ecology
Aqua Folly
Atonement
Autumn Across America
Beargrass Creek
Beautiful River, The
Bulldozed America
Camping: A Key to Conservation
Conservation: A Job for Young America
Conservation and Balance in Nature
Conservation and Our Forests
Conserving a Heritage
Conserving Our Mineral Resources Today
Conserving Our Natural Resources
Crisis in the Estuary
Crisis on the Kanawha
Earth Is the Lord's, The
Eternal Forest, The
Everglades, The: Conserving a Balanced Community
Food or Famine
Great Barrier Reef, The
Green City, The
Heritage of Splendor
House of Man: Our Changing Environment
Journey Into Summer
Land Betrayed, A
Let the Little Lake Live
Man and His Resources
Man Makes a Desert
Man's Effect on the Environment
Mud
Multiply and Subdue the Earth
Myths and the Parallels, The: A Story of Conservation
Nation of Spoilers, A
1985
No Room for Wilderness
Nuclear Power and the Environment
Our Endangered Wildlife
Pollution Is a Matter of Choice
Population and Pollution

CONSERVATION (continued)

Problems of Conservation: Air
Problems of Conservation: Forest and Range
Problems of Conservation: Minerals
Problems of Conservation: Our Natural Resources
Problems of Conservation: Soil
Problems of Conservation: Water
Problems of Conservation: Wildlife
Problem With Water Is People, The
Rise and Fall of the Great Lakes, The
Room to Breathe
Rx for a River
Search for Ecological Balance, A
To Clear the Air
Tragedy of the Commons, The
Treasure of the Forest
Tree House
Twentieth Century River
Urban Sprawl vs. Planned Growth
Waterfowl - A Resource in Danger
Water - Old Problems, New Approaches
Water - Pattern of Life
Wealth of the Wasteland
What Are We Doing to Our World?(Pt.1)
What Are We Doing to Our World?(Pt.2)
Wild River

EARTH SCIENCE - PHYSICAL GEOGRAPHY

Agriculture Story, The
Changing River
Conserving a Heritage
Conserving Our Mineral Resources Today
Conserving Our Natural Resources
Eternal Forest, The
Problems of Conservation: Forest and Range
Problems of Conservation: Minerals
Problems of Conservation: Our Natural Resources
Problems of Conservation: Soil
Problems of Conservation: Water
(A)River, Where Do You Come From?
Rx for a River

ECOLOGICAL BALANCE

Animal Predators and the Balance of Nature
Balance of Life and the Space Age
Cave Ecology
Changing River
Community, The (25 - PCS)
Conservation and Balance in Nature
Crisis in the Estuary
Eternal Forest, The
Everglades, The: Conserving a Balanced Community
Man Makes a Desert
River Must Live, The
What Is Ecology?

ECOLOGY

Agriculture, Research and You
Animal Predators and the Balance of Nature
Applied Ecology
Balance of Life and the Space Age
Beargrass Creek
Beautiful River, The
Cave Ecology
Changing River
Community, The (25 - PCS)
Conservation and Balance in Nature
Conservation and Our Forests
Crisis in the Estuary
Cry of the Marsh
Eternal Forest, The
Everglades, The: Conserving a Balanced Community
Grassland Ecology - Habitats and Change
Great Barrier Reef, The
House of Man: Our Changing Environment
Journey Into Summer
Man Makes a Desert
Man's Effect on the Environment
North With the Spring
Nuclear Power and the Environment
Population Ecology
River Must Live, The
Search for Ecological Balance, A

ECOLOGY
(continued)

Swamp
Time of Man, The
Tragedy of the Commons, The
Treatment Was Successful, but the Patient Died, The
Wandering Through Winter
Waterfowl - A Resource in Danger
What Are We Doing to Our World?
What Is Ecology?

ECONOMICS

Agriculture Story, The
Automation - The Next Revolution
Automation - What It Is and What It Does
Automobiles - The Great Love Affair
Challenge of Urban Renewal, The
Changing City, The
Cities and the Poor, The (Pt.1)
Cities - The Rise of New Towns
Community, The (14 - UDIF)
Effects of Air Pollution
Farmer - Feast or Famine, The
Idea of the City, The
India: Writings in the Sand
It's the Only Air We've Got
Let the Little Lake Live
Not Enough
Poor Pay More, The
Something in the Wind
Superfluous People
Things I Cannot Change, The
To Each a Rightful Share
Under One Roof

ENERGY

Conserving Our Mineral Resources Today
Energetically Yours
Nuclear Power and the Environment
Time to Live
Water Pollution: Can We Keep Our Water Clean?
What Are We Doing to Our World?
With Each Breath

EVOLUTION

Baboon Behavior
Early Stone Tools
Grassland Ecology - Habitats and Change
Miss Goodall and the Wild Chimpanzees
Problems of Conservation: Wildlife
Time of Man, The

FAMILY PLANNING

Banquet of Life, The
Before They Say "I Do"
Beyond Conception
Birds, Bees and Storks
Birth Control
Birth Control, How
European Experience, The
Fair Chance
Family Planning
Five Million Women
Gift of Choice, The
Happy Family Planning
Illegal Abortion
Japan: Answer in the Orient
Mounting Millions, The
People by the Billions
Planned Families
Problem Is Life, The
Regional Report: Birth Control
To Plan Your Family
Tragedy of the Commons, The
Under One Roof

FOOD SUPPLY

Agriculture Story, The
Banquet of Life, The
Can the Earth Provide?
Can the World Be Fed?
Challenge to Mankind
Control or Destroy
Environmental Sanitation
Food Crisis, The
Food or Famine

FOOD SUPPLY
(continued)

Food Revolution, The
Global Struggle for Food, The
Harvest of Mercy
House of Man: Our Crowded Environment
India and Her Food Problem
India: Writings in the Sand
Life in the Balance
Marshland is not Wasteland
Not Enough
Population Explosion
Problems of Conservation: Soil
Rice
Tomorrow's World: Feeding the Billions
Tragedy of the Commons, The
Who Owns the Bottom of the Ocean?

GEOGRAPHY - HUMAN AND CULTURAL

Changing City, The
Cities in Crisis: What's Happening...?
City - Heaven and Hell, The
Community, The (14 - UDIF)
Crowd, The
Don't Crowd Me
Energetically Yours
Environment of Poverty, The
European Experience, The
Heart of the City, The
Idea of the City, The
Mauritius
Multiply and Subdue the Earth
No Room for Wilderness
Not Enough
One Dimension, Two Dimension, Three Dimension, Four
Overload
Pandora's Easy Open Pop-Top Box
Pond and the City, The
Population and Pollution
Population Ecology
Squeeze, The
Time of Man, The
Tragedy of the Commons, The
Troubled Cities, The

HEREDITY AND REPRODUCTION

Birds, Bees and Storks
Birth and Death
Birth Control
Childbirth
Fertilization and Birth
From Generation to Generation
Gift of Choice, The
How Life Begins
Human Growth
New Facts of Life
Planned Families
To Plan Your Family

HUNGER

Banquet of Life, The
Can the Earth Provide?
Can the World Be Fed?
Challenge to Mankind
Control or Destroy
Food Crisis, The
Food or Famine
Food Revolution, The
Harvest of Mercy
House of Man: Our Crowded Environment
India and Her Food Problem
Life in the Balance
Mounting Millions, The
Population Explosion
Rice
Secret Hunger, The
Tomorrow's World: Feeding the Billions

INDIA

Harvest of Mercy
India and Her Food Problem
India: Writings in the Sand
Mounting Millions, The
Not Enough
Problem Is Life, The

LAND USE

Agriculture Story, The
Altered Environments: An Inquiry Into the American Woodlands
Applied Ecology
Banquet of Life, The
Brush Creek Bounces Back
Bulldozed America
Carnival of Ugly, A
Changing City, The
Cities - The Rise of New Towns
Cry of the Marsh
Day at the Dump, A
Earth Is the Lord's, The
Food Crisis, The
Food or Famine
Global Struggle for Food, The
House of Man: Our Changing Environment
Idea of the City, The
Let the Little Lake Live
Making the Desert Green - Irrigation Farming
Man Makes a Desert
Marshland Is Not Wasteland
Mud
Open Space
Open Space Communities: A New Environment for America
Problems of Conservation: Forest and Range
Problems of Conservation: Soil
Ravaged Earth, The
Search for Ecological Balance, A
Treasure of the Forest
Who Owns the Moon?

LITTERING

All the Difference
Alone in the Midst of the Land
Camping: A Key to Conservation
Carnival of Ugly, A
Conservation: A Job for Young America
Decade of Challenge

(CONTINUED NEXT PAGE)

LITTERING
(continued)

Down the Road
Forest Murmurs
Heritage of Splendor
Idea of the City, The
Land Betrayed, A
Lassie's Litter Bit
Litterbug
Litterbug, The
Nation of Spoilers, A
Nice Place to Visit - But, A
Water Pollution: Can We Keep Our Water Clean?
Woodland Manners
Your Living Room

MARRIAGE

Before They Say "I Do"
Early Marriage

MEDICAL - HEALTH

Air of Disaster
Air Pollution
Air Pollution: Take a Deep Deadly Breath
Beware the Wind
Breathe at Your Own Risk
Effects of Air Pollution
European Experience, The
First Mile Up, The
Health and the Cycle of Water
Health...Food and Nutrition
It's the Only Air We've Got
Little Man, Big City
Man Alive - The World Health Organization
Noise Boom, The
On a Clear Day You Can Almost See Terminal Tower
Pall Over Our Cities
Poisons, Pests and People
Problems of Conservation: Air
Something in the Wind
Take a Deep Breath
Water Famine, The

NUTRITION

Health...Food and Nutrition

PEACE

Challenge to Mankind

PESTICIDES

Agriculture, Research and You
Agriculture Story, The
Living Soil, The
Poisons, Pests and People
Rival World, The
Silent Spring of Rachel Carson, The

POLLUTION, AIR

Air of Disaster
Air Pollution
Air Pollution - Everyone's Business
Air Pollution Films
Air Pollution: Take a Deep Deadly Breath
Alone in the Midst of the Land
Autos, Autos Everywhere
Beware the Wind
Breathe at Your Own Risk
Breath of Fresh Air, A
Carnival of Ugly, A
Challenge of Urban Renewal, The
Cities, The: A City Is to Live In
Cities in Crisis: A Matter of Survival
Cities in Crisis: What's Happening...?
Day at the Dump, A
Decade of Challenge
Don't Leave It All to the Experts
Effects of Air Pollution
First Mile Up, The
From the Face of the Earth
House of Man: Our Changing Environment
House of Man: Our Crowded Environment
Idea of the City, The

(CONTINUED NEXT PAGE)

POLLUTION, AIR
(continued)

- Ill Winds on a Sunny Day
- It's the Only Air We've Got
- Let's Clear Our Air
- Little Man, Big City
- Matter of Attitudes, A
- Myths and the Parallels, The: A Story of Conservation
- Nice Place to Visit - But, A
- On a Clear Day You Can Almost See Terminal Tower
- One Dimension, Two Dimension, Three Dimension, Four
- Overload
- Overload in the Cities
- Pall Over Our Cities
- Pandora's Easy Open Pop-Top Box
- Poisoned Air, The
- Pollution
- Pollution Is a Matter of Choice
- Population and Pollution
- Problems of Conservation: Air
- Run-Around, The
- Something in the Wind
- Take a Deep Breath
- Third Pollution, The
- To Clear the Air
- Tragedy of the Commons, The
- What Are We Doing to Our World?
- With Each Breath

POLLUTION, INDUSTRIAL

- Air Pollution
- Air Pollution - Everyone's Business
- Air Pollution Films
- Air Pollution: Take a Deep Deadly Breath
- Alone in the Midst of the Land
- Beware the Wind
- Challenge of Urban Renewal, The
- Cities, The: A City Is to Live In
- Cities in Crisis: What's Happening...?
- Crisis on Our Rivers
- Crisis on the Kanawha

POLLUTION, INDUSTRIAL
(continued)

- Day at the Dump, A
- Decade of Challenge
- House of Man: Our Crowded Environment
- Idea of the City, The
- Ill Winds on a Sunny Day
- It's the Only Air We've Got

- Myths and the Parallels, The: A Story of Conservation
- On a Clear Day You Can Almost See Terminal Tower
- One Dimension, Two Dimension, Three Dimension, Four
- Oops
- Overload
- Pall Over Our Cities
- Pandora's Easy Open Pop-Top Box
- Poisoned Air, The
- Pollution Is a Matter of Choice
- Problems of Conservation: Air
- River Must Live, The
- River, Where Do You Come From?
- Run-Around, The
- Something in the Wind
- Take a Deep Breath
- Teamwork on the Potomac
- To Clear the Air
- Water Pollution: Can We Keep Our Water Clean?

POLLUTION, LANDSCAPE

- All the Difference
- Alone in the Midst of the Land
- Applied Ecology
- Autos, Autos Everywhere
- Beautiful River, The
- Beware the Wind
- Bulldozed America
- Carnival of Ugly, A
- Cities in Crisis: What's Happening...?
- Conservation: A Job for Young America
- Conserving Our Natural Resources

POLLUTION, LANDSCAPE
(continued)

- Day at the Dump, A
- Decade of Challenge
- Down the Road
- Eternal Forest, The
- Forest Murmurs
- Forgotten River
- Garbage
- Garbage Explosion, The
- Green City, The
- House of Man: Our Crowded Environment
- Idea of the City, The
- Land Betrayed, A
- Lassie's Litter Bit
- Litterbug
- Little Man, Big City
- Man's Effect on the Environment
- Matter of Attitudes, A
- Multiply and Subdue the Earth
- Myths and the Parallels, The: A Story of Conservation
- Nation of Spoilers, A
- Nice Place to Visit - But, A
- One Dimension, Two Dimension, Three Dimension, Four
- Overload
- Pandora's Easy Open Pop-Top Box
- People by the Billions
- Population and Pollution
- Problems of Conservation: Forest and Range
- Problems of Conservation: Soil
- Ravaged Earth, The
- Silent Spring of Rachel Carson, The
- Stuff We Throw Away, The
- Swamp
- Woodland Manners
- Your Living Room

POLLUTION, NOISE

- Down, Decibel, Down
- Idea of the City, The
- Little Man, Big City
- Noise (35 - BFA)

POLLUTION, NOISE
(continued)

- Noise (39 - PCS)
- Noise Boom, The
- Noise: The New Pollutant

POLLUTION, WATER

- Alone in the Midst of the Land
- Aqua Folly
- Ark
- Beargrass Creek
- Beautiful River, The
- Carnival of Ugly, A
- Choice is Yours, The
- Cities in Crisis: What's Happening...?
- Conservation: A Job for Young America
- Conserving Our Natural Resources
- Crisis in the Estuary
- Crisis on Our Rivers
- Crisis on the Kanawha
- Decade of Challenge
- Down the Road
- Drowning Bay, The
- Forgotten River
- House of Man: Our Changing Environment
- House of Man: Our Crowded Environment
- How Our Town Saved the River
- Journey Into Summer
- Land Betrayed, A
- Marshland Is Not Wasteland
- Matter of Attitudes
- Men at Bay
- Myths and the Parallels, The: A Story of Conservation
- One Dimension, Two Dimension, Three Dimension, Four
- Oops
- Overload
- Overload in the Cities
- Pandora's Easy Open Pop-Top Box
- People by the Billions
- Pollution Is a Matter of Choice

(CONTINUED NEXT PAGE)

POLLUTION, WATER (continued)

Population and Pollution
Problems of Conservation: Water
Rise and Fall of the Great Lakes, The
River Must Live, The
River, Where Do You Come From?
Silent Spring of Rachel Carson, The
Teamwork on the Potomac
Third Pollution, The
Treatment Was Successful, but the Patient Died, The
Water Famine, The
Water - Old Problems, New Approaches
Water - Pattern of Life
Water Pollution: Can We Keep Our Water Clean?
What Are We Doing to Our World? (Pt.2)
Who Killed Lake Erie?
Wild River

POPULATION DEMOGRAPHY

Big City - 1980
Don't Crowd Me
European Experience, The
Five Million Women
Idea of the City, The
Little Man, Big City
Multiply and Subdue the Earth
One Dimension, Two Dimension, Three Dimension, Four
Overload
Pandora's Easy Open Pop-Top Box
People by the Billions
Population Ecology
Population Explosion
Squeeze, The
Tragedy of the Commons, The
Troubled Cities, The
Under One Roof
Uprooted Nation, The
U.S.A. - Trouble in Paradise

POPULATION PROBLEMS

Banquet of Life, The
Beyond Conception
Brazil: The Gathering Millions
Can the Earth Provide?
Can the World Be Fed?
Challenge to Mankind
Changing City, The
Cities and the Poor, The (Pt.1)
Cities and the Poor, The (Pt.2)
Cities - Crime in the Street
Crime in the Cities
Don't Crowd Me
European Experience, The
Fair Chance
Family Planning
Five Million Women
Food Crisis, The
Food or Famine
Food Revolution, The
Gift of Choice, The
Global Struggle for Food, The
Harvest of Mercy
House of Man: Our Crowded Environment
India and Her Food Problem
India: Writings in the Sand
Japan: Answer in the Orient
Less than Human
Life in the Balance
Little Man, Big City
Mauritius
Mounting Millions, The
Multiply and Subdue the Earth
No Room for Wilderness
Overload
Pandora's Easy Open Pop-Top Box
People by the Billions
Population Ecology
Population Explosion
Secret Hunger, The
Squeeze, The
Tragedy of the Commons, The
Troubled Cities, The
Under One Roof

POVERTY

Brazil: The Gathering Millions
Cities and the Poor, The (Pt.1)
Cities and the Poor, The (Pt.2)
Environment of Poverty, The
House of Man: Our Crowded Environment
Poor Pay More, The
Secret Hunger, The
Superfluous People
Things I Cannot Change, The
To Each A Rightful Share
Under One Roof

PREJUDICE

Black and White: Uptight
Crime in the Cities

RESOURCE MANAGEMENT
See CONSERVATION

SANITATION

Environmental Sanitation
European Experience, The

SEWAGE DISPOSAL

Beautiful River, The
Crisis on Our Rivers
Crisis on the Kanawha
Forgotten River
Health and the Cycle of Water
How Our Town Saved the River
River Must Live, The
Teamwork on the Potomac
Treatment Was Successful, But the Patient Died, The
What Are We Doing to Our World? (Pt.1)

SLUMS
See CITY PROBLEMS

SOCIAL PROBLEMS

Acceleration
Automation - The Next Revolution
Automation - What It Is and What It Does
Automobiles - The Great Love Affair
Autos, Autos Everywhere
Before They Say "I Do"
Beyond Conception
Birth Control
Birth Control and the Law
Birth Control, How
Black and White: Uptight
Brazil: The Gathering Millions
Can the Earth Provide?
Can the World Be Fed?
Challenge to Mankind
Cities and the Poor, The (Pt.1)
Cities and the Poor, The (Pt.2)
Cities - Crime in the Street
Crime in the Cities
Don't Crowd Me
Environment of Poverty, The
European Experience, The
Family Planning
Food Crisis, The
Food or Famine
Food Revolution, The
Gift of Choice, The
Global Struggle for Food, The
Hard Way, The
House of Man: Our Crowded Environment
Life in the Balance
Nation of Spoilers, A
One Dimension, Two Dimension, Three Dimension, Four
Peace and Voices in the Wilderness
Poor Pay More, The
Superfluous People
Things I Cannot Change, The
Time to Live
To Each a Rightful Share
Tomorrow's World: Feeding the Billions
Tragedy of the Commons, The
Troubled Cities, The
Under One Roof
Uprooted Nation, The

SOCIOLOGY - SOCIAL BEHAVIOR

Acceleration
Birds, Bees and Storks
Black and White: Uptight
Cave Ecology
Cities - Crime in the Street
Crime in the Cities
Crowd, The
Don't Crowd Me
Down, Decibel, Down
Early Marriage
Eden, U.S.A.
Environment of Poverty, The
Peace and Voices in the Wilderness
Things I Cannot Change, The
Tragedy of the Commons, The

TECHNOLOGY

Acceleration
Agriculture Story, The
Air Pollution - Everyone's Problem
Air Pollution Films
Alone in the Midst of the Land
Automania 2000
Automation - The Next Revolution
Automation - What It Is and What It Does
Beware the Wind
Breathe at Your Own Risk
Breath of Fresh Air, A
Can the Earth Provide?
Can the World Be Fed?
Challenge to Mankind
Cities in Crisis: What's Happening...?
Conserving Our Mineral Resources Today
Conserving Our Natural Resources
Early Stone Tools
Effects of Air Pollution
Energetically Yours
Farmer - Feast or Famine, The
Global Struggle for Food, The
Homo Homini
House of Man: Our Crowded Environment

TECHNOLOGY
(continued)

Ill Winds on a Sunny Day
India and Her Food Problem
Life in the Balance
Living Soil, The
Making the Desert Green - Irrigation Farming
Man and His Tools
No Turning Back
Pollution Is a Matter of Choice
Smalltown, U.S.A.
Time to Live
Tomorrow's World: Feeding the Billions
Tragedy of the Commons, The
What Are We Doing to Our World? (Pt.1)
What Are We Doing to Our World? (Pt.2)

TRANSPORTATION

Air of Disaster
Air Pollution - Everyone's Problem
Automania 2000
Autos, Autos Everywhere
Cities, The: A City Is to Live In
Cities in Crisis: Transportation
Cities in Crisis: What's Happening...?
City - Cars or People?, The
L.A. Too Much
One Dimension, Two Dimension, Three Dimension, Four
Overload

UNITED NATIONS

Man Alive - The World Health Organization
Secret Hunger, The

URBAN RENEWAL

See CITY PLANNING AND URBAN RENEWAL

VALUES

Acceleration
All the Difference
Automania 2000
Automation - The Next Revolution
Automation - What It Is and What It Does
Automobiles - The Great Love Affair
Autos, Autos Everywhere
Before They Say "I Do"
Beyond Conception
Birth Control
Birth Control and the Law
Birth Control, How
Black and White: Uptight
Can the World Be Fed?
Cities in Crisis: A Matter of Survival
Community, The (14 - UDIF)
Crime in the Cities
Crowd, The
Earth Is the Lord's, The
End of One, The
Environment of Poverty, The
From the Face of the Earth
Homo Homini
L.A. Too Much
Less Than Human
Man and His Resources
Nation of Spoilers, A
1985
Not Enough
Peace and Voices in the Wilderness
Pond and the City, The
Rebels/271, The: Ecology of Design
Superfluous People
Things I Cannot Change, The
Tragedy of the Commons, The

WASTE DISPOSAL

Abandoned, The
All the Difference
Alone in the Midst of the Land
Beautiful River, The
Beware the Wind
Burn, Bury, or What?
Crisis on Our Rivers

WASTE DISPOSAL (continued)

Crisis on the Kanawha
Day at the Dump, A
Environmental Sanitation
Garbage
Garbage Explosion, The
Green Box, The
Nuclear Power and the Environment
Stuff We Throw Away, The
Swamp
Third Pollution, The
Treasure in a Garbage Can
Up to Our Necks: The Garbage Problem
Wealth of the Wasteland
What's New in Solid Waste Management

WATER RESOURCE MANAGEMENT

Aqua Folly
Beargrass Creek
Brush Creek Bounces Back
Changing River
Conserving Our Mineral Resources Today
Conserving Our Natural Resources
Drowning Bay, The
Environmental Sanitation
Everglades, The: Conserving a Balanced Community
Health and the Cycle of Water
How Our Town Saved the River
Land Betrayed, A
Let the Little Lake Live
Making the Desert Green - Irrigation Farming
Marshland Is Not Wasteland
Men at Bay
Nuclear Power and the Environment
Oops
Problems of Conservation: Water
Problem With Water Is People, The
Rise and Fall of the Great Lakes, The
River Must Live, The
Room to Breathe

(CONTINUED NEXT PAGE)

WATER RESOURCE MANAGEMENT (continued)

Rx for a River
Search for Ecological Balance, A
Teamwork on the Potomac
Tomorrow's World: Feeding the Billions
Treatment Was Successful, But the Patient Died, The
Twentieth Century River
Water
Water Famine, The
Water - Old Problems, New Approaches

WILDLIFE

Animal Predators and the Balance of Nature
Atonement
Baboon Behavior
Everglades, The: Conserving a Balanced Community
Miss Goodall and the Wild Chimpanzees
Monkeys and Apes - An Introduction to the Primates
Our Endangered Wildlife
Problems of Conservation: Wildlife
So Little Time
Swamp
Time of Man, The
Waterfowl - A Resource in Danger

INDEX OF SOURCES FOR ANNOTATIONS

AFR....The American Film Review
AMNH...American Museum of Natural History
AP.....Air Pollution
BFA....BFA Educational Media
CIFFC..Critical Index of Films and Filmstrips in Conservation
CMC....Center for Mass Communications of Columbia University
EBEC...Encyclopaedia Britannica Educational Corp.
EC.....Environmental Crisis
ECin...Environmental Cinema
FPEM...Family Planning Educational Materials
FRSE...Film Resources for Sex Education
HEF....Health Education Films
ICF....International Communication Films
IFB....International Film Bureau, Inc.
MCA....Manufacturing Chemists' Association
NFBC...National Film Board of Canada Films
NICEM..National Information Center for Educational Media
PCS....Population Curriculum Study of the University of Delaware
PP-WP..Planned Parenthood-World Population
SF.....Shell Films
TRR....Teachers Resource Reference
UDIF...University of Delaware Instructional Films
UEVA...Universal Education and Visual Arts
ZPG....Zero Population Growth

ANNOTATED LIST OF FILMS
FOR
POPULATION-ENVIRONMENT STUDIES

PREPARED BY THE

POPULATION CURRICULUM STUDY
UNIVERSITY OF DELAWARE

ANNOTATED LIST OF FILMS FOR POPULATION-ENVIRONMENT STUDIES

Prepared by the Population Curriculum Study

University of Delaware

ABANDONED, THE   10 min. sound - color. (19 - PCS)

An interesting and effective film essay on the fate of abandoned cars left on city streets - the single largest solid waste problem. Lack of narration contributes rather than detracts from the film's effectiveness.

ACCELERATION   2 min. sound - color. (1 - PCS)

A charming, animated witticism which has great value for provoking discussion about man's quest for knowledge. Primitive man becomes restless after drinking from the tree of life. This restlessness results in a number of crude inventions which lead him only to another tree of life, and old desires which he thought were satisfied are reawakened.

AGRICULTURE, RESEARCH AND YOU   28 min. sound - color. (2 - NICEM)

Shows some of the agricultural research being done on plant diseases, animal health and nutrition, soil chemistry, and the effect of light upon plants.

AGRICULTURE STORY, THE   10 min. sound - color. (3 - AFR)

Why American agriculture is the most efficient and productive in history is the theme of this documentary. It dramatizes the forces of nature, the gifts of science, and the great works of American farmers and machines operating in a free economy.

AIR OF DISASTER   50 min. sound - color.

This NBC documentary explores the problem of air pollution through demonstrations of research on auto exhaust emissions and their effects on animals, plants, and humans. Interviews are held with Walter Orr Roberts, National Center for Atmospheric Research, and U.S. Senator Edmund Muskie, D. Maine. A highlight of the film is a running commentary on New York City's air pollution problem by an indignant taxi driver. Analyses of air pollution in cities and rural communities underline the scope and immediacy of the problem.

AIR POLLUTION   10 min. sound - color. (5 - EC)

Defines air pollution, shows how it is caused, and presents evidence of the threat it poses to national health and the economy. Discusses scientific and political complications involved in pollution control and lists possible long-range solutions.

AIR POLLUTION - EVERYONE'S BUSINESS   20 min. sound - color. (6 - CIFFC)

This film demonstrates how ordinary daily activities of individuals and industries combine to pollute the air. Graphic and easy-to-follow animation indicates how pollutants in the air merge with elements like ozone to create smog. The efforts of one steel company to solve its air pollution problems is a visual record of an industrial company which appears to be doing something about the problem at its source.

AIR POLLUTION FILMS   15 min. sound - color. (7 - CIFFC)

Sources of Air Pollution - One of three short films which should be shown as a group. This particular film stresses the chemical make-up of wastes in the air and describes their biological effects.

Effects of Air Pollution - Depicts effects of air pollution on human and animal life, and on the community itself. Underlines the fact that the problem is not simply limited to occasional and intense periods of smog but that danger lies also in continued exposure to a lesser degree of pollution over an extended period of time.

Control of Air Pollution - A recapitulation of the content of the first two films. A trifle oversimplified and seems to skirt the obvious need for expenditure of large sums to effect proper control. Nevertheless highly useful if used as part of the series.

AIR POLLUTION: TAKE A DEEP DEADLY BREATH   54 min. sound - color. (8 - AP)

This 3-part documentary on air pollution originated as an ABC-TV special documentary. Part I describes day-to-day difficulties experienced by an emphysema patient and his family. Part II presents highlights of a Federal interstate abatement conference as part of one town's fight to control a serious source of pollution. Part III stresses the theme that all citizens have a stake in the fight to clean the air.

ALL THE DIFFERENCE   25 min. sound - color. (9 - PCS)

"They had eyes, couldn't they see?" is the recurring question raised in this film. All the Difference is a multidisciplinary film of excellent quality. The works of a representative group of America's best loved poets are used in contrast to some biting and ironic comments on the condition of our landscape. Thought-provoking contrasts pictured in the film make this a useful instrument for developing positive environmental and conservation attitudes.

ALONE IN THE MIDST OF THE LAND   23 min. sound - color. (5 - EC)

Man's present environmental crisis is presented through a report by the last man on earth, who is reduced to living in a protective suit after the rest of the population has been destroyed by man-made pollution of the air, water, and land. The thesis is that in the year 2000 man may be the species facing extinction.

ALTERED ENVIRONMENTS: AN INQUIRY INTO THE AMERICAN WILDLANDS 10 min. sound - color. (35 - BFA)

As man has searched for and exploited America's natural resources, he has destroyed much of our wildlands. This inquiry film raises questions about the values to be found in remaining wildlands and involves students in decisions about future use of our wild areas.

ANIMAL PREDATORS AND THE BALANCE OF NATURE 10 min. sound - color. (10 - NICEM)

Demonstrates that the balance of nature is the ratio between the earth's occupants and their food supply. Describes predators of the land, air and sea, and shows how they help keep nature in balance.

APPLIED ECOLOGY 28 min. sound - color or b & w. (8 - NICEM)

Shows how man has misused the soil and resources. Describes measures to reduce wastes and restore land now unusable. Illustrates the classification of land according to its best use.

AQUA FOLLY 33 min. sound - color. (11 - PCS)

This film's aim is to awaken public interest in the water problems which confront many areas of our nation. It does a good job of surveying the relationships between water management and conservation programs.

ARK 20 min. sound - color. (114 - PCS)

The contrived format and poor acting detract from this different and rather unusual approach to the problems of pollution. One man's efforts to keep alive the life family of a pond leads him to the conclusion that whatever the pollution problem, man is the prime polluter and only man can correct the problems. Nothing new here.

ATONEMENT 54 min. sound - color. (68 - PCS)

An excellent conservation film, highly recommended for its beautiful photography and almost endless classroom uses. The film examines efforts of the Canadian Wildlife Service to preserve threatened species including the polar bear, mountain goat, and whooping crane.

AUTOMANIA 2000 10 min. sound - color. (1, 8 - PCS)

The film satirizes the logical conclusion of our love for autos and their connection with status. A world living in autos piled hundreds deep all over the earth is used as a metaphor. The film works through exaggeration but does point out how values shape the world we create.

AUTOMATION - THE NEXT REVOLUTION   28 min. sound - b & w. (8 - NICEM)

Discusses potentialities and dangers accompanying the rapid growth of machine labor. Includes interviews with Secretary of Labor Willard Wirtz and others. A CBS-TV film.

AUTOMATION - WHAT IT IS AND WHAT IT DOES   14 min. sound - color or b & w. (12 - NICEM)

Explores automation from an electric can opener to transfer machines in an assembly line to a computer-controlled petroleum refinery. Considers the future implications of increasing automation.

AUTOMOBILES - THE GREAT LOVE AFFAIR   54 min. sound - b & w. (8 - NICEM)

Examines the impact of the automobile on the economy, tastes and living pattern of Americans. A CBS-TV film.

AUTOS, AUTOS EVERYWHERE   25 min. sound - color. (8, 13 - ZPG)

Twenty-first Century TV series examining the problem of too many autos causing too much human and environmental damage.

AUTUMN ACROSS AMERICA   50 min. sound - color. (165 - PCS)

As in the other films of the We Need Each Other Series, Autumn Across America takes us to the starting point of a season. From there we move with the camera across the continent to observe the changes in nature that the new season brings. In some respects, however, Autumn Across America is more of a mystery film than any of its companions in the series, for it poses some bewildering questions.

BABOON BEHAVIOR   31 min. sound - color. (14 - UDIF)

Shows baboons in their native habitat in Kenya and compares their behavior with that of counterparts in human development.

BALANCE OF LIFE AND THE SPACE AGE   14 min. sound - color. (15 - NICEM)

Studies basic needs of living things. Describes community interdependence in a pond, where plants use carbon dioxide supplied by fish and fish use oxygen supplied by plants. Explains that in space a balanced system must be created in the space capsule.

BANQUET OF LIFE, THE   54 min. sound - b & w. (16, 17 - PCS)

This dramatic film asserts that it is not enough to increase the food supply for overpopulated areas. Birth control must be included in any programs which seek to make more food available, or the problems will only become more acute. Excellent in content; beautiful photography from all over the world. A NET-TV film.

BEARGRASS CREEK   20 min. sound - color. (18 - PCS)

The poignant tragedy of a small tributary stream...its promising start...and its sad end. This film explains how citizens can initiate action to combat pollution and, incidentally, follows a team of scientists as they conduct an aquatic life study of one of America's great river systems.

BEAUTIFUL RIVER, THE   26 min. sound - color. (19 - ZPG)

NBC-TV story of the 400-mile Connecticut River, once renowned for its great beauty, now a raw sewage ditch by many standards.

BEFORE THEY SAY "I DO"   28 min. sound - color. (17, 20 - PP-WP)

As a young couple walks down the aisle to be married, a series of flashbacks traces the role of the clergyman and the physician in premarital counseling. Includes birth control information and the part family planning plays in marriage.

BETTER WATER FOR AMERICANS   14 min. sound - color. (86 - PCS)

Attempts to create an appreciation of the value of an adequate public water supply and an understanding of some of the complexities involved in its provision.

BEWARE THE WIND   22 min. sound - color. (5 - AP)

The origins and evolution of the worldwide affliction of dirty air are artfully shown. The film shows the principal sources of air pollution, including industrial operations, burning dumps, motor vehicles, and combustion of fossil fuels like coal and oil. It describes with some intended irony the effects of air pollutants on animals, people and property. Attention is given to the means of applying available technology to bring about cleaner air through the efforts of a concerned citizenry.

BEYOND CONCEPTION   35 min. sound - color. (21, 22 - PCS)

The fresh approach of this film goes well beyond the population problem and the birth control techniques it describes so clearly and well. Using unusually imaginative and creative techniques, its imagery builds up awareness of the total human condition, and the need for every individual of every age to recognize and assume his personal responsibilities at this turning point in man's history. Emphasis is on the human being, his environment and his relationships. Preview of this film is a must.

BIG CITY - 1980   54 min. sound - b & w. (24, 87 - PCS)

Analyzes the situation confronting cities as urbanization increases. Examines Brasilia, a completely planned new city, as well as older sections of Philadelphia which are being revitalized. Shows the human side of renewal and emphasizes the problems of relocation.

BIG RIVER   15 min. sound - color. (71, 72, 73 - PCS)

This film emphasizes the essential role of the Mississippi River as the main artery of the vast inland navigation system of the United States. Live photography is used to contrast early steamboat navigation with modern diesel towboats and to show various port facilities, the great variety of commodities and boats using the waterways, and channel maintenance activities of the Corps of Engineers. It also shows the river's role in the defense and space programs and in industrial development along the Mississippi River thus illustrating the value of a dependable navigation system to economic growth. Maps are also used in several sequences for orientation purposes.

BIRDS, BEES AND STORKS   5 min. sound - color. (8 - FPEM)

Humorous film narrated by actor Peter Sellers depicts a father groping for euphemisms in a pathetic, but all-too-typical effort to explain the facts of life to his son. The explanation becomes progressively more vague in the face of his increasing embarrassment until he ends the discussion having said nothing, but confident that he has made a clear explanation to the boy and done his duty as a father.

BIRTH AND DEATH   sound - b & w. (23, PCS)

Produced by Public Broadcasting Laboratory for the National Educational Television Network, this film is a remarkable portrayal of the life-death cycle. Birth and Death is one of the most highly acclaimed films of its kind. Careful preview is recommended before use.

BIRTH CONTROL   60 min. sound - b & w. (16 - NICEM)

Explores the legal, medical, moral and social aspects of birth control in the United States. Discusses successes and failures of clinics, legislative hurdles and overpopulated cities. Provides interviews with users, government officials and clinic administrators. An NET-TV film.

BIRTH CONTROL AND THE LAW 53 min. sound - b & w. (24 - NICEM)

Discusses from both a legal and a moral point of view the question of whether a tax-supported institution should furnish birth control information. A CBS-TV film.

BIRTH CONTROL, HOW 32 min. sound - b & w. (25 - NICEM)

Examines the social and religious implications of birth control pills and family planning. David Brinkley interviews Dr. John Rock, developer of the first oral contraceptive, and Rev. John O'Brien. An NBC-TV film.

BLACK AND WHITE: UPTIGHT 35 min. sound - color. (15 - PCS)

An exploration of the myths that perpetuate prejudice and the subtle ways hate is learned. Inequities in education, economic opportunity, and protection of the law are stressed as the causes of differences between black and white people. The question, "What can I do to help?" is answered in the film especially for teen-age Americans whose new attitudes can guarantee a better tomorrow. Careful preview is recommended.

BOY TO MAN, GIRL TO WOMAN (2 films) 32 min. sound - color. (26, 27 - PP-WP)

Two effective films dealing with the physical and emotional changes that occur during adolescence. Junior and senior high school students should see both film to understand the processes and problems of both sexes. Animation.

BRAZIL: THE GATHERING MILLIONS 1/2 hr., 1 hr. sound - b & w. (16 - PCS)

The population problem in the slums of Rio de Janeiro is a major point in this dramatic film. The film opens with a general statement on the implications of population growth especially for the less developed countries. Through scenes of dire poverty, of crowded living conditions, and of people oppressed by hopelessness, the film makes a number of unforgettable comments.

BREATHE AT YOUR OWN RISK 58 min. sound - b & w. (29 - NICEM)

Highlights air pollution as a national problem. Includes film clips on research laboratory facilities, clinical treatment of a person suffering from severe pulmonary distress, the Donora smog and a London fog. Seeks public opinion in man-on-the-street interviews.

BREATH OF FRESH AIR, A 30 min. sound - b & w. (28 - MCA)

The state of the air pollution crisis is assessed. Included in the discussions: causes, economic costs, available solutions and future possibilities.

BRUSH CREEK BOUNCES BACK 22 min. sound - color. (18 - PCS)

The Brush Creek Virginia Water Shed Project is used to show how elaborate flood control efforts can result in social, industrial, and recreational benefits to a region. A good film for informing the concerned citizen.

BULLDOZED AMERICA 25 min. sound - b & w. (30 - CIFFC)

The action begins by contrasting a popular folksong, "My Land, Your Land" against pictures of a devastated area. This film emphasizes the problem of increasing pressure on the natural resources of the country and presents various points of view often vehement in their disagreement. A spokesman for a lumber company points out that growth means jobs and that undue preservation of the wilderness would affect both the economy and the security of the country. In partial reply it is argued that unless additional national parks are set aside now, we won't have the space to create them. The documentation suggests that before long the American people will be forced to attend the museums to see the once-great wilderness heritage of their country.

BURN, BURY OR WHAT? 19 min. sound - color. (18 - PCS)

Once you have your community's attention about solid waste disposal problems this film can show them what one city did to solve its problems. The Kenilworth Sanitary Landfill near the nation's capital is fast solving the massive solid waste disposal problem that had developed over a period of twenty-five years. A new incinerator is combined with an ingenious grinding-baling-barging system to offer hope to a community that was being buried by its waste. This film would be of special benefit if used with the other Stuart Finley production, A Day At The Dump.

CAMPING: A KEY TO CONSERVATION 23 min. sound - color. (16 - PCS)

Narrated by a 13-year old, the film shows boys learning good camping practices. Later, picnicking with his family, one of the boys applies lessons of camp to his family's after-picnic cleanup.

CAN THE EARTH PROVIDE? 28 min. sound - b & w. (8, 16 - FPEM)

A survey of the scientific resources now being utilized in an effort to solve the food problem of mankind.

CAN THE WORLD BE FED? 15 min. sound - color. (31 - PCS)

"How many billions of people can the earth support?" is the opening question of this film. The fact that hunger is now a normal condition for hundreds of millions of people is the central concept of the film. Causes of this hunger condition are illustrated: population explosion, failures of traditional agricultural methods, widespread national differences in human, technical, and natural resources, and disparity between needy and self-sufficient countries. The film concludes with provocative questions about the urgency, morality, and practicality of aiding hungry nations.

CARNIVAL OF UGLY, A   28 min. sound - color. (1 - PCS)

A concise but extremely effective study of some of today's environmental problems. Air pollution, water pollution, slums, erosion, and litter are problems discussed in this film. This would be an excellent film to introduce these problems and to begin discussions about these problems in the context of your own community.

CAVE ECOLOGY   13 min. sound - color. (32 - PCS)

An excellent film, gives students a clearer view of social interactions and interdependence in the human community by analyzing the cave community. The concepts discussed in the film include: insulating effects of soil, food chains, energy sources, food webs, community, and balance maintenance.

CHALLENGE OF URBAN RENEWAL, THE   30 min. sound - color or b & w. (25 - NICEM)

Examines the evidence of such problems as urban and suburban deterioration, air and water pollution and highway jams. Televised under the title "America, The Beautiful" by NBC-TV.

CHALLENGE TO MANKIND   28 min. sound - b & w. (8 PCS)

Over a billion people are hungry today. What about tomorrow? How serious is the population problem? What can be done about increasing the food supply? Madame Pandit, Lord Boyd Orr, Victor Belaunde, Paul Hoffman, and Hugh Keenleyside give differing views on many of these problems and the possible solutions through increased scientific know-how. All agree that the crisis exists, that it cannot be minimized, that nations must cooperate and that peace, so necessary for a better life for all people, may depend on these issues.

CHANGING CITY, THE   16 min. sound - color. (26 - CIFFC)

Introducing the economic, social and cultural advantages of the city plus the use of animation showing its historical pattern of growth through the nineteenth century to its present explosive growth, this film explains the reason for cities. The film documents problems of land use, blighted areas, urban renewal, population density, and the desperate need for civic planning. Graphic animation stresses the need of space for culture, welfare, education, and health.

CHANGING FACE, THE   13-1/2 min. sound - color. (88 - PCS)

Emphasizes the need for city planning and citizen participation, and deals specifically with the problems facing the city of Santa Barbara, California, as it attempts to maintain its individuality in the midst of pressure to change.

CHANGING RIVER   16 min. sound - color. (33 - NICEM)

Deals with the ecology of a river system from its beginnings in rain and runoff to its ultimate flowing to the ocean. Emphasizes the biological relationship between living organisms and their environment.

CHILDBIRTH   25 min. sound - b & w. (34 - FRSE)

The simple facts of childbirth from sexual union to the birth of the baby are presented in discussion between a physician and a group of students.

CHOICE IS YOURS, THE   14 min. sound - color. (109 - PCS)

Pollution of the Great Lakes is examined by the Ontario Water Resources Commission. The film shows the types of research being done and the efforts that are being made to preserve the quality of fresh water resources. Excellent photography but no better than an average treatment of the actual work of water resource management stations.

CITIES, THE: A CITY IS TO LIVE IN   54 min. sound - color or b & w. (35 - PCS)

CBS News correspondent Walter Cronkite narrates his investigation of dirty air, the plague in our major cities. He also deals with the problems of transportation which along with air pollution is choking our cities. Promises of help in future are considered through illustrations of projected plans which should help erase these conditions.

CITIES AND THE POOR, THE (Pt. 1)   60 min. sound - b & w. (16 - NICEM)

Discusses the problems of the urban poor. Explains who they are and the reasons for their dilemma. Documents attempts by the poor and by government and private agencies to find a way out of poverty. An NET-TV film.

CITIES AND THE POOR, THE (Pt. 2)   60 min. sound - b & w. (16 - NICEM)

Explores the rise of militant groups among the urban poor. Documents their methods of organizing to obtain better living conditions and discusses the effect of these organized efforts on the Federal Poverty Program and on local governmental bodies. An NET-TV film.

CITIES - CRIME IN THE STREET   60 min. sound - b & w. (16 - NICEM)

Discusses police protection and rehabilitation of juvenile offenders in the United States. Explains how police are hampered by a manpower shortage, poor community relations and training. Contrasts juvenile training schools with community rehabilitation plans. An NET-TV film.

CITIES IN CRISIS: A MATTER OF SURVIVAL 18 min. sound - color. (89 - UEVA)

This film is a searing blend of Walt Whitman's lyrical treatment of the things of the earth and Ray Witlin's visual poetry turned to an examination of what is happening to our world. It is designed to create an awareness of the intense questioning that must go on among ourselves if we can hope to deal with the problems of land, water, air and noise pollution before it is too late.

CITIES IN CRISIS: COMMUNICATION 18 min. sound - color. (89 - UEVA)

This film follows the tradition of its predecessors, What's Happening...? and A Matter of Survival, in placing the emphasis on the visual and the abstract ideas that can be made to emerge from brilliant detail thoughtfully filmed. The general subject is the city and the role of communication in the developing urban crisis.

CITIES IN CRISIS: TRANSPORTATION 18 min. sound - color. (89 - UEVA)

A visual essay on urban transportation facilities, designed to trigger discussion about meanings and remedies. While inanimate objects carry the visual message, a complex sound track suggests the involvement of human beings on a variety of levels.

CITIES IN CRISIS: WHAT'S HAPPENING...? 21 min. sound - color. (164 - PCS)

Cities in Crisis combines advanced film techniques and a contemporary musical score to demonstrate the dramatic impact of uncontrolled urban growth. The crass and the ugly of contemporary city life are contrasted with nostalgic flashbacks of a quiet past. The film is designed to provoke strong feelings and thoughtful discussion. Among the ideas visualized in the film are those of pollution and its effects, personal orientation within the city, landmark destruction, the expansion of technology in transportation and communication, and human interactions within the urban design.

CITIES - THE RISE OF NEW TOWNS 60 min. sound - b & w. (16 - NICEM)

Examines the concept and purposes of totally planned communities. Planners, government officials and legislators discuss the economic and sociological implications of planned towns, such as Foster City and Irvine, California. An NET-TV film.

CITY AND ITS REGION, THE 28 min. sound - b & w. (8 - NFBC)

History shows that cities thrive best when they live in harmony and balance with the countryside. How can this balance be maintained or restored in today's sprawling metropolitan regions?

CITY AND THE FUTURE, THE 28 min. sound - b & w. (8 - NFBC)

An inevitable and urgent choice must be made - low-grade urban sprawl or a new kind of regional city. This film examines prospects for the city and ways to restore its role.

CITY AS MAN'S HOME, THE 28 min. sound - b & w. (8 - NFBC)

Slums, giant public housing complexes, mass suburbs, anonymous and bleak luxury apartments - almost everywhere in our cities communal standards of living fall as personal standards rise. How did this happen and what can cities now do?

CITY - CARS OR PEOPLE?, THE 28 min. sound - b & w. (8 - NFBC)

A study of an old but dangerously growing problem - how to make the city accessible for meeting and mixing without allowing autos to make it congested and uninhabitable.

CITY - HEAVEN AND HELL, THE 28 min. sound - b & w. (8 - NFBC)

An outline of the opposed natures - creative and destructive - of the city in history, the elements that created the first cities about five thousand years ago, and the forces that now threaten "man's most precious collective invention."

COMMUNITY, THE 11 min. sound - color or b & w. (25 - PCS)

Defines ecological community as a complex network of interrelationships among a group of plants and animals adapted to the same general physical conditions, food chains and food webs.

COMMUNITY, THE 60 min. sound - color. (14 - UDIF)

Evaluates the cultural, educational, religious and physical characters of two dissimilar communities undergoing social and economic change.

CONSERVATION: A JOB FOR YOUNG AMERICA 18 min. sound - color. (5 - EC)

The song of a wandering folk singer, Patrick Sky, is the unifying element in this montage film which suggests the role that young people can play in solving America's conservation crisis. Scenes of polluted rivers, debris-strewn beaches, and other eyesores present the problem. Then come shots of children bearing placards, mailing letters to their congressmen, and carrying out individual and group projects in preserving natural beauty, aiding wildlife, and cleaning up blighted areas.

CONSERVATION AND BALANCE IN NATURE 20 min. sound - color. (5 - EC)

Investigates balance in natural ecological systems and what man is doing to his environment. Shows that the interrelation of organisms in food webs involves a delicate balance. Pictures a wide variety of animal adaptations and discusses their significance for community balance. Critically examines man's role in changing the existing balance in biological communities.

CONSERVATION AND OUR FORESTS 16 min. sound - color. (5 - EC)

Points out that forests are important because they provide watersheds, recreation areas, and wood. Shows how tree farming and careful utilization of trees can conserve forests and supply lumber.

CONSERVING A HERITAGE 16-1/2 min. sound - color. (36 - TRR)

The search for petroleum often takes oilmen into remote regions where fish and wildlife abound. This film dramatizes oilmen's efforts to preserve these natural treasures.

CONSERVING OUR MINERAL RESOURCES TODAY 11 min. sound - color. (5 - NICEM)

Explains that the decreasing supply of irreplaceable materials like coal, oil, stone and metals makes conservation a problem for today. Suggests solutions lie in the development of renewable resources, such as waterpower, more efficient mining and new sources of power, such as nuclear and solar energy.

CONSERVING OUR NATURAL RESOURCES 18 min. sound - color. (5 - NICEM)

Explains that science has found new ways to get the most from resources and to use new materials. Points out also that waste and pollution of resources have not been eliminated.

CONTROL OR DESTROY 12 min. sound - b & w. (19 - PCS)

A good factual account of the acute problems of malnutrition in underdeveloped countries. Over-population warnings of the 1970's are still of grave concern but the "Grain Revolution" seems to be having some impact on the malnutrition problem. Some of the effects of instruction in birth control methods are illustrated.

CRIME IN THE CITIES 30 min. sound - b & w. (25 - NICEM)

Examines whether the volume of crime warrants the crisis atmosphere existing today. Suggests the relationship between prejudice and crime and discusses its effects on civil rights. Studies both crimes against property and crimes of violence. An NBC-TV film.

CRISIS IN THE ESTUARY 15 min. sound - color. (90 - PCS)

This film produced under the direction of the Delaware Conservation Education Association and funded by the Kent County Levy Court is probably the best film relating to Delaware's problems of pollution. Designed to show the interrelationships between the Delaware Bay and wetlands and the human community, the film hits hard at the necessity of maintaining an ecological balance in the area surrounding the Delaware River and Bay. A beautifully filmed production, it is highly recommended.

CRISIS ON OUR RIVERS 14 min. sound - color. (37 - NICEM)

Examines the municipal and industrial pollution of water in New York. Contains interviews with citizens on this statewide and national water pollution crisis.

CRISIS ON THE KANAWHA 23 min. sound - color. (18 - PCS)

What happens to a river as it flows through a metropolitan industrial area is the thrust of this film. Emphasis is placed on the almost endless sewer outfalls spilling into the river. Crisis on the Kanawha points out the need for public concern, involvement, and cooperation to prevent the continued destruction of our water resources.

CROWD, THE 20 min. sound - b & w. (38 - ZPG)

Without a word of narration, The Crowd raises questions about: the herding instinct, territorial imperative, crowd and mob psychology, aloneness and loneliness, people at parades and sporting events, subways, carnivals and eating. The director's ideas and attitudes are revealed almost entirely through superb editing. The closing shot is a lone scientist contemplating the ultimate crowd - a group of human chromosomes.

CRY OF THE MARSH 12 min. sound - color. (5 - EC)

Depicts the beauty of marsh life and the tragic consequences which result from draining North American marshes, the breeding grounds of millions of waterbirds. States that man, in his relentless search for more land, fails to consider the ecological consequences of his actions.

DAY AT THE DUMP, A 15 min. sound - color. (18 - AP)

A humorous look at an unfunny eyesore in the Nation's Capital - the notorious Kenilworth dump. Tracing the growth of the dump over a period of years, the film demonstrates how 25,000 tons of a variety of pollutants were spewed daily into the air of the Washington, D.C., area, prior to its conversion to a sanitary landfill operation. A Day at the Dump emphasizes the need for regional solutions to the growing solid-wastes disposal problems in metropolitan areas, and indicates the valuable by-product implications of air pollution control.

DECADE OF CHALLENGE 30 min. sound - color or b & w. (19 - PCS)

An unusual combination of color and black and white film which stresses the need for recognizing and counteracting the dangers of pollution if this is not to be man's last decade. Excerpts from the films: No Turning Back, The Slow Guillotine, Pollution Is a Matter of Choice, How to Make a Dirty River, and Alone in the Midst of the Land are combined in this presentation.

DESIGN FOR A CITY 27 min. sound - color. (91 - PCS)

Features the successful planning and execution of a comprehensive urban renewal program in Philadelphia. Emphasizes teamwork by government, planners, architects, citizens organizations, and the public. Based on the 1961 film Form, Design, and the City.

DON'T CROWD ME 15 min. sound - color. (PCS)

It is estimated that by 1975, 70% of the U.S. population will live in metropolitan areas. Why this migration to these areas and what becomes of rural immigrants once they reach these areas, are questions discussed in this film. Possible solutions are examined and some hope for the future is evident. Of special interest is the notion that population growth, crowding, and social oppression are contributing to the irrational aggression found in cities today.

DON'T LEAVE IT ALL TO THE EXPERTS 16 min. sound - color. (4 - AP)

The theme of this motion picture is public concern and air pollution. The film explains how the major provisions of the Clean Air Act can affect all of us. Suggests the part the concerned citizen may play in bringing about healthful air in the federally-designated air quality control region in which he lives.

DOWN, DECIBEL, DOWN 9 min. sound - color. (39 - PCS)

In our civilization, noise level is no joke. But what's "funny" are the noisemakers - people. People say sonic boom must be outlawed - but they must say it loudly enough to be heard over the family television. People invite an after-dinner speaker on noise problems - but can't hear him through the din of clinking dessert spoons. This is a very noisy film about the problem of too much noise. It is sobering comedy.

DOWN THE ROAD 16 min. sound - color. (8 - CIFFC)

An unusual story, as four youngsters innocently bound for a day at the beach, find their play area closed off completely because of pollution, litter and general thoughtlessness. Eloquently photographed and produced with both imagination and basic knowledge of the threats facing our national parks and beaches, it is a story intended to lure youngsters through their own modern medium of music into careful consideration of what makes pollution and litter significant.

DROWNING BAY, THE 9 min. sound - color. (39 - PCS)

This is the story of San Francisco Bay and its near destruction at the hands of man. Drowning Bay is the short version of Men at Bay, with revised narration and soundtrack for elementary grades. An evocative film for children making acquaintance with the world they are to grow up in.

EARLY MARRIAGE 24 min. sound - color. (34 - FRSE)

The theme of this film is "...that marriage is much more than a private agreement between a man and a woman to live together. That society as a whole has an important stake in every marriage." The relationship between marriage and society is stressed as a most important principle. A variety of the typical problems related to teenage marriage are dramatized.

EARLY STONE TOOLS 20 min. sound - color. (14 - UDIF)

Traces the development of stone tools and parallels their development with the evolution of man from Australopithecus to Homo sapiens. Professor Francois Bordes demonstrates some percussion flaking techniques to produce a variety of tools. Shows actual prehistoric tools.

EARTH AND MANKIND, THE (series) sound - b & w. (8 - PP-WP)

Survey of world population problem and food supply. Stanley Burke, foreign correspondent and United Nations commentator, is narrator. Film titles are: People by the Billions, Man and His Resources, To Each a Rightful Share, The Global Struggle for Food, Can the Earth Provide?, Challenge to Mankind, and Tomorrow's World. See individual film titles for annotation.

EARTH IS THE LORD'S, THE 15 min. sound - color. (40 - PCS)

Stewardship of our land.

EDEN, U.S.A. 25 min. sound - color. (41 - NICEM)

Explores the signs and symptoms of the leisure revolution, which would force people to consider what they would do if they had time to do anything they wished.

EFFECTS OF AIR POLLUTION 5 min. sound - color. (42 - NICEM)

Discusses the relationship between the modern technological way of life and air pollution. Gives examples of adverse effects on health, agriculture and the total economy of the country.

END OF ONE, THE   7 min. sound - color. (14 - PCS)

"A strange, puzzling, almost mystical film about the death of a seagull. The camera literally prowls through a garbage heap, watching seagulls scavenge for food. Then, one bird is singled out--a weak, frail, seemingly helpless bird--and the camera follows it to the end. A thought-provoking film which may be an allegory on greed, a parody of life, or a death knell for our environment." (IRC)* Success with this film will depend upon its very carefu use. It seems more applicable to studies of the film as an art form or to humanities and literature studies than it does to environmental studies. The film is of unusually high quality but its value may be limited.

ENERGETICALLY YOURS   13 min. sound - color. (43 - CIFFC)

The advent of the Industrial Revolution and the great accompanying increase in mechanical inventions resulted in increasing demands for power. This spirited animation represents an informal account of man's search for new sources of energy and illustrates how the discovery of each new source altered his way of life. This film makes an effective and entertaining approach to th study of energy.

ENVIRONMENTAL SANITATION   10 min. sound - color. (44 - PCS)

Film traces the development of a city from a village to a complex metropolis. Stresses problems of water supply, food, insects, rodents and waste disposal. This is the story of a city, speaking in the first person, relating its growth problems and their solutions.

ENVIRONMENT OF POVERTY, THE   30 min. sound - color. (43 - PCS)

An in-depth study which shows that the fouled environment of poverty systematically infests and rots the minds, values, and hopes of the poor. The present and future of man are examined against the effects of poverty and a different dimension of man's problems is displayed.

ETERNAL FOREST, THE   21 min. sound - color. (5 - EC)

Portrays the ravage of North America's primeval forests and the gross neglect of forest resources during the years of our nation's dynamic growth and expansion. Describes efforts to restore nature's balance through methods of forest conservation.

*University of Delaware Instructional Resources Center

EUROPEAN EXPERIENCE, THE   1/2 hr., 1 hr. sound - b & w.   (16 - PCS)

Today, the birth rate and the death rate in Europe offset each other; and, by examining population patterns since the Middle Ages, this film attempts to show how this balance has been achieved. With the use of related prints and paintings, the narrator points out that population in the early years was limited by high infant mortality and a short life span until technological advances and improved sanitary conditions and health procedures caused it to mushroom. The European Experience provides a valuable lesson that still applies today - namely, that well-educated parents have learned to limit their families in order to provide better lives for themselves and for their children.

EVERGLADES, THE: CONSERVING A BALANCED COMMUNITY   11 min. sound - color or b & w.   (25 - EBEC)

A visual demonstration that conservation must be included in any plans for expanding human communities. Shows how water requirements of new residential areas in Florida are endangering many species of wild life in nearby Everglades National Park. This film proves the interdependence of all life and the dependence of human beings and animals on an adequate water supply.

FAIR CHANCE   14 min. sound   color or b & w.   (45 - PP-WP)

An expectant father, unhappy about the impending birth of his fourth child, learns in the waiting room how Planned Parenthood helps couples have only as many children as they want.

FAMILY PLANNING   10 min. sound - color.   (46 - FPEM)

An animated cartoon featuring Donald Duck, this film provides an overview of population problems and birth control methods. Designed for a wide audience.

FARMER - FEAST OR FAMINE, THE   26 min. sound - b & w.   (8 - NICEM)

Describes the rapid changes in farming and their profound effects. Cites such changes as modern management methods, mechanization and new ways of marketing. A CBS-TV film.

FERTILIZATION AND BIRTH   13 min. sound - color.   (34 - FPEM)

A well-conceived film using animation to show fertilization in various animal species. Births of chicks, puppies and a calf are shown. The final segment reintroduces animation to show the development and birth of a baby. Excellent for young children.

FIRST MILE UP, THE   28 min. sound - b & w. (8 - NFBC)

A film on air pollution, with surprising disclosures of what the seemingly empty air around us holds. The problem is discussed by engineers, health authorities and scientists.

FIVE MILLION WOMEN   9 min. sound - b & w. (17 - FPEM)

Utilizes data from a special Census Department survey to trace the demographic characteristics of an estimated 5.3 million U.S. women in need of family planning services.

FOOD   5 min. sound - color. (8 - NFBC)

Food is intended to demonstrate how improvements in farming practice and technology increase the yield of crops and so the farmer's income.

FOOD CRISIS, THE   60 min. sound - b & w. (16 - NICEM)

Documents the lack of population control, good farm practices, rainfall and distribution which has led to scarcity of food in underdeveloped nations. Contrasts nations with much food to those with little food.

FOOD OR FAMINE   28-1/2 min. sound - color. (47 - SF)

Only one tenth of the earth's land surface is arable. Yet it must support a world population - already largely undernourished - that will double in forty years. Food or Famine appeals for greater international cooperation in expanding food production worldwide. It presents the impending threat of mass starvation and then reports what is being done to prevent it - through land reclamation, improvement of seed crops, fertilization, improved range management, better fishing methods, and insect and weed control.

FOOD REVOLUTION, THE   26 min. sound - color. (8 - PCS)

This film focuses on some of the efforts being made to cope with the problem of feeding the ever-increasing world's population. Provided the birth rate becomes stabilized or lowered before the twenty-first century, there are some pilot projects that seem to offer hope.

FOREST MURMURS   8-1/2 min. sound - color. (34 - PCS)

Focuses on a woodland, flowers, and sparkling water. Piece by piece, litter is introduced until it destroys the loveliness. Not a word is spoken, but music gradually rises to a discordant crescendo.

FORGOTTEN RIVER   29 min. sound - color. (48 - CIFFC)

This film follows the Hudson River from its source in the Adirondacks, down to the sea, and from clean, clear water through accelerating pollution, to blend at least with relatively unpolluted sea water off Ambrose Light. A naturalist, a fisherman, an historian, a writer, and a health officer exchange comments and criticisms of the river and its history in their time. Strikingly photographed, meticulously produced, and extremely appealing.

FORM, DESIGN, AND THE CITY   57 min. sound - color. (92 - PCS)

Depicts the role of city planning in the development of Philadelphia, explaining how the original William Penn design has influenced the form and shape of the city. Continues through the years to the modern master plan that attempts to channel the city's present and future growth.

FROM GENERATION TO GENERATION   27 min. sound - color or b & w. (8 - PP-WP)

The story of human reproduction is told as an integral part of the universal pattern of nature. Childbearing is seen as an emotional and spiritual as well as a physical experience. Animation used to describe the physiology of conception and reproduction.

FROM THE FACE OF THE EARTH   10-1/2 min. sound - color. (39 - PCS)

Set in the year 2020, the film records the trip of a boy and his grandfather who leave their artificial, underground home and visit the boyhood home of the old man - the face of the earth, abandoned because of lack of oxygen.

GARBAGE   10-1/2 min. sound - color. (39 - PCS)

A film without words that suggests that there is a tragic-comic quality about everything that has to do with man - even his garbage. It opens with an ironic sequence showing that garbage cans have character. People reveal their characters by the ways they get their garbage into the can. Gradually the tempo increases as disposal systems struggle to sweep away an ever-growing flood of garbage. The film ends with a Dantesque scene in a dump where strange mechanical monsters flounder about in a world where there is nothing but garbage as far as the eye can see.

GARBAGE EXPLOSION, THE   16 min. sound - color or b & w. (25 - PCS)

This film investigates the nature, volume, and composition of solid wastes which produce environmental pollution. Current disposal methods are examined and their advantages and disadvantages discussed. Some possible long range solutions are also presented.

GIFT OF CHOICE, THE   60 min. sound - b & w. (16 - NICEM)

Reports on experiments being conducted to determine the factors governing pregnancy in order to aid those who want children and those who want to limit the size of their families.

GIRL TO WOMAN, BOY TO MAN (2 films)   32 min. sound - color. (26, 27 - PP-WP)

Two effective films dealing with the physical and emotional changes that occur during adolescence. Junior and senior high school students should see both films to understand the processes and problems of both sexes. Animation.

GLOBAL STRUGGLE FOR FOOD, THE   28 min. sound - b & w. (8, 16 - PCS)

A documentary report on the progress of man's efforts to expand worldwide food production through agricultural experimentation, construction of dams, and redistribution and settlement of land areas.

GRASSLAND ECOLOGY--HABITATS AND CHANGE   13 min. sound - color. (32 - PCS)

The film poses many questions about grasslands and habitats and develops a series of concepts designed to bring understanding to the questions. The concept of change is emphasized.

GREAT BARRIER REEF, THE   [illegible]8 min. sound - color. (19 - PCS)

This film examines the unique ecosystem of the Reef off the coast of Australia. The Crown of Thorns, a variety of starfish which feeds on coral, is multiplying so rapidly it threatens to destroy the Reef. Man faces a real dilemma in trying to decide just what to do or not to do. A very good film.

GREEN BOX, THE   17 min. sound - color. (18 - PCS)

Two years ago in Clanton, Alabama, the county sanitarian "just raised hell" about the burning dump swarming with flies and rats. The upshot of the ruckus he raised was the development of a novel container collection system which has become one of the Environmental Protection Agency's most promising projects. This film illustrates how it all happened, with before and after shots that show the results that have been achieved.

GREEN CITY, THE   22 min. sound - color. (18 - PCS)

This film hits hard at the devastating destruction resulting from poor planning. Problems dealt with include: conservation and city planning, cluster development, urban sprawl, suburban blight, disappearing greenery, and fading landscape. Green City is a conservation film of unusually high quality and represents the attitudes and programs of active conservationist groups whose prime interest is the preservation and conservation of natural resources and natural beauty.

HAPPY FAMILY PLANNING 8 min. sound - color. (44 - HEF)

A witty, speechless animated cartoon, which answers the five main questions people ask about family planning: Will it really prevent pregnancy? Will it injure me? Can we have babies later? Will our child of the future be normal? Will it spoil our sex life?

HARD WAY, THE 60 min. sound - b & w. (16 - NICEM)

Considers the problem of poverty in this country and emphasizes the differences between the poor of today and those of past generations. An NET-TV film.

HARVEST OF MERCY 41 min. sound - color or b & w. (24 - PCS)

The film tells the story of how millions of people in India are saved from starvation by America's abundance. It tells how millions of tons of wheat from the rich fields of Kansas are harvested and sent to remote villages in India.

HEALTH AND THE CYCLE OF WATER 20 min. sound - b & w. (44 - HEF)

Traces water from its source to a filtration plant for purification. Continues with a description of the water cycle to homes, through sewers and back to the sea.

HEALTH...FOOD AND NUTRITION 11 min. sound - color. (44 - HEF)

This film helps the primary grade student discover for himself the need and importance of a balanced diet and proper nutrition. It teaches that to grow up as fast and as strong as they should, they need to eat foods from each of the four basic food groups each and every day.

HEART OF THE CITY, THE 28 min. sound - b & w. (8 - NFBC)

A study of the growing sterility, dullness and congestion that is destroying the vitality, variety and breadth that once made cities physically attractive and humanly creative.

HERITAGE OF SPLENDOR 18 min. sound - color. (9, 49 - NICEM)

Emphasizes the importance of preserving America's great natural resources from the consequences of littering.

HOMO HOMINI 11 min. sound - color. (1 - PCS)

Wires, machinery, flashing lights, buttons, slots, graphs, and charts are the awesome companions of the hero of this film, a marionette scientist feeding information into the supercomputer. Scampering images tell us what is going through his mind but the central question remains - What is he trying to solve? For mature audiences, this film is a worthwhile and meaningful experience.

HOUSE OF MAN: OUR CHANGING ENVIRONMENT 17-1/2 min. sound - color. (25 - CIFFC)

The film contrasts the natural ecosystem of a pond with man's environment, the city. Man's increasing pressures on his environment lead to problems including urban sprawl, air and water pollution, and slums. The question is raised as to whether these problems must be the perpetual legacy of the Industrial Age. In reply the film presents four positive examples of man's ability to constructively plan for the future of his cities and his land. The story emphasizes that man is the only living creature capable of such planning and that it is possible only upon his acceptance of the fact that he and his resources are interdependent and indivisible.

HOUSE OF MAN: OUR CROWDED ENVIRONMENT 11 min. sound - color or b & w. (25 - EBEC)

Shows problems resulting from the population explosion of the twentieth century: housing and food shortages, poverty, pollution, industrial waste, exploitation of natural resources. Technological understanding is increasing - medical discoveries, mechanical abilities, scientific exploration are causing an explosion in knowledge. The challenge: to apply these discoveries to safeguarding a quality future.

HOW LIFE BEGINS 46 min. sound - color. (8 - FPEM)

Widely praised ABC-TV News special that examines the story of birth and reproduction in detail. Explores reproduction in fish, birds and a variety of mammals and shows the actual birth of a human baby.

HOW OUR TOWN SAVED THE RIVER 30 min. sound - color. (50 - CIFFC)

The story brings the old Yankee "town meeting" up to date, in presenting the problem of a recent cancellation by a large industrial company of its plans to erect a plant within the township. The town's water commissioner with an ingenious display of charts and graphs plus a town-made motion picture produced by students at the local college illustrates the reason for the cancellation. His point that the water of a neighboring river is polluted and his demand for a modern sewage disposal plant are met by the old cry of "Taxes!", but his ingenuity overcomes these objections, using the ingenious device of showing that the actual cost of taxes would be less than a candy bar per person per day.

HUMAN GROWTH 20 min. sound - color. (34 - FPEM)

Film shows fifth-grade classroom discussion of human growth and maturation, fertilization, menstruation, and development of fetus.

IDEA OF THE CITY, THE 30 min. sound - color. (14 - UDIF)

Traces the development of the city from its medieval origins to the present day. Emphasizes the plight of the modern metropolis with reference to its historical background. Scenes of the city are juxtaposed against the speaking of John Kenneth Galbraith, the narrator.

ILLEGAL ABORTION 28 min. sound - b & w. (51 - NFBC)

A dramatized film to illustrate the social and emotional problems of a couple faced with an unwanted pregnancy. Main focus is on the young woman whose only resort is to seek out a back-room abortionist. The film is a convincing portrayal of situations deriving from laws and attitudes in many localities. (This film is not recommended for those below the age of 16.)

ILL WINDS ON A SUNNY DAY 28-1/2 min. sound - color. (4 - AP)

This documentary points out how air pollution has evolved over the past few decades. Shown are varied sources of dirty air factors and examples of current research to abate the problem. Featured are interviews with concerned citizens in all parts of the nation. The film stresses the need for increased understanding of the problem and cooperative action by industry, citizens, community and government officials at all levels.

INDIA AND HER FOOD PROBLEM 16 min. sound - color. (52 - NICEM)

Presents some of India's food problems, such as lack of fuel, increasing population and irregular rains. Shows how India is building dams, encouraging industry, introducing new tools and promoting education.

INDIA: WRITINGS IN THE SAND 1/2 hr., 1 hr. sound - color. (16 - PCS)

This excellent adult film details the effects of India's uncontrolled population growth on her economy, making its points by allowing the camera to roam through crowded villages and cities. The film shows that the vast population is largely resistant to change, that the Hindu religion encourages early marriage and fertility, and that children are considered an economic asset. It includes interviews on population control. The Minister of Education indicates that population growth wipes out all increases in food production as easily and as quickly as waves wipe out "writings in the sand."

IT'S THE ONLY AIR WE'VE GOT 25 min. sound - color. (4 - AP)

This film tells the story of Pittsburgh's continuing fight against air pollution. The film demonstrates the economic and aesthetic effects of dirty air and stresses the threat to health. The documentary presents the views of industrialists, scientists, and local and state officials.

JAPAN: ANSWER IN THE ORIENT 1/2 hr., 1 hr. sound - color. (16 - PCS)

Overpopulation is a constant threat to Japan, a nation with a small land area, limited resources and little arable soil; but Japan's population remains stable because her people have chosen to limit the size of their families. This thought-provoking film shows population control efforts through the centuries by means of art prints, photographs and news films. Particularly effective is a sequence about a young working wife considering whether or not to have her baby. The film stresses the cooperation of government, industry and the medical profession in making information about contraception and abortion readily accessible and in publicizing the "better life" which is available to small families.

JOURNEY INTO SUMMER 50 min. sound - color. (165 - PCS)

This quietly beautiful film is both a natural history of summer in America and a commentary on the interrelationships of all living things. We see nature at her zenith of color and life. Everything is in full bloom, and all are performing their individual and interdependent roles in nature's great life cycle. But all is not quite as ideal as at first it seems. The camera scans a great body of water, Lake Erie. It looks magnificent at first, but closer inspection shows that it is near death. Poisoned by pollution and choked by growths not natural to its environment, this shallowest of the Great Lakes is about to be lost to man and beast. The film goes on to report on other threatened natural sites and on animal species lost and dwindling through the unthinking acts of generations of men. "We have fewer than 20 years to pull it out of the fire..." a naturalist tells us, but he adds the pessimistic comment, "I think we blew it...just take a good look at everything."

L.A. TOO MUCH 12 min. sound - color. (53 - PCS)

Implicit in this film are questions about the impact of change on life styles, the quality of the environment, and the probable shape of a dehumanized future. The long life and violent death of a Victorian house is followed by scenes of impersonal, characterless modern buildings that make it clear what sort of environment will replace the beauty and serenity of the old house.

LAND BETRAYED, A 10 min. sound - color. (93 - PCS)

The problem of an "ugly America" is explored, and ways are suggested for individuals and communities to alleviate the problem. The offensiveness of litter, the spoliation of waterways, and the marring of approaches to towns is demonstrated. The point is made that since only people can make America ugly, it is up to people to protect its beauty.

LASSIE'S LITTER BIT 27-1/2 min. sound - color. (94 - PCS)

In the setting of a national forest, Lassie convinces a careless camper that litter, in addition to being unsightly, is dangerous to animals. With Lassie, the camper rescues a helpless racoon caught in a discarded food can. He then cleans up the area and delivers the collected litter to Lassie's master, the forest ranger.

LESS THAN HUMAN 27 min. sound - color or b & w. (54 - PP-WP)

The contemporary population problem is presented in terms of the individual who has no answers. The film raises the issue of involvement and motivation.

LET'S CLEAR THE AIR 28 min. sound - b & w. (7 - CIFFC)

Other documentaries have dealt with air pollution in larger cities. Here is a documentary which deals particularly with smaller cities. Here are the points-of-view dramatized by interviews with local officials, community leaders and industry representatives. It is interesting to note that the major emphasis is placed on the responsibility of the individual citizen not only as a target of the effects of air pollution but as a contributor to it.

LET THE LITTLE LAKE LIVE 15 min. sound - color. (5 - EC)

The detrimental effect of silt deposits in small lakes introduces the more serious economic problem of the loss of productive topsoil through erosion. Documents the tragic inadequacies of water control in rural America and illustrates ways to improve drainage and curb soil erosion.

LIFE IN THE BALANCE 29-1/2 min. sound - color. (55 - FPEM)

Documents the story of man's race against hunger by depicting patterns of world food shortages and changes in the world's environment due to increasing population pressures. Outlines the efforts of scientists to deal with these problems.

LITTERBUG 10 min. sound - color. (95 - PCS)

Two schoolboys are depicted as opposites: one is neat, the other untidy. The litterbug, however, learns his lesson after seeing a movie at school showing the ugliness of litter.

LITTERBUG, THE 8 min. sound - color. (56 - PCS)

Donald Duck appears in the role of the litterbug, public nuisance number one, the most contemptible pest known to mankind.

LITTLE MAN, BIG CITY   10 min. sound - color. (96 - CMC)

Little Man, Big City dramatizes the plight of today's urban dweller. In a distinctive animated style, the film shows the city's relentless assault on the health of its inhabitants. The "little man" in the film lives in a typical urban center where poor planning, haphazard design and inadequate health controls have depleted him - emotionally and physically. In his daily living, he is besieged by overcrowding, noise, air pollution, lack of privacy, lack of open spaces and recreational facilities, and by the hectic and uniform pace of living. Even in the confines of his small apartment, he cannot escape the noxious effects of his surroundings. The film urges united community action to make the cities healthful and enjoyable places in which to live. City planners, architects, health and municipal officials, scientists and teachers will find this film an excellent introduction to the environmental problems besetting our urban centers. Recommended for use with all segments of the population and all age groups.

LIVING SOIL, THE   20 min. sound - color. (47 - PCS)

The Living Soil explores the life that abounds in the earth's thin layer of top soil. Most of this life is beneficial to mankind, but intensive farming provides a rich environment for the pests that can destroy the crops upon which man so heavily depends. The film portrays the problems, then visits laboratories and agricultural experiment stations the world over to show how science is fighting to reduce the ravages of soil pests.

LOTS FOR SALE   24 min. sound - color. (97 - PCS)

Shows the basic elements that make a new community a good place to live: schools, drainage, industry, housing, churches. Emphasizes the importance of planning before the first houses are built.

MAKING THE DESERT GREEN - IRRIGATION FARMING   16 min. sound - color or b & w. (25 - NICEM)

Introduces the concept of water management and scientific farming. Shows the method of irrigation which turned the dry Coachella Valley of California into the richest farm land, acre for acre, in the world.

MAN ALIVE - THE WORLD HEALTH ORGANIZATION   26 min. sound - b & w. (8 - NICEM)

Traces the history of the World Health Organization from early attempts to develop an international program for prevention of epidemics and promotion of health. Details world activities of the World Health Organization.

MAN AND HIS RESOURCES   28 min. sound - b & w. (8 - NICEM)

A lucid examination of the meaning of the universal declaration of human rights, in terms of the basic raw materials of existence. Considers the responsibility of the "haves" toward the "have-nots."

MAN AND HIS TOOLS   10 min. sound - color. (56 - PCS)

Shows how the discovery of fire, the development of smelting processes, the refinement of measurement methods and mass production techniques have led to industrial advancements and wider distribution of goods.

MAN MAKES A DESERT   11 min. sound - color or b & w. (15 - NICEM)

Illustrates the changes that can occur when man upsets the delicate balance between the plants and animals that inhabit an area. Explains that through scientific study man is attempting to reclaim the land by reversing the changes he made.

MAN'S EFFECT ON THE ENVIRONMENT   13-1/2 min. sound - color. (35 - BFA)

From the time of the earliest colonists, Americans have destroyed features of the environment at an increasing rate. This film shows some of the effects of man's exploitation of natural resources, and raises questions as to the quality of life such environmental changes might provide.

MARSHLAND IS NOT WASTELAND   14 min. sound - color. (57 - CIFFC)

This unusually beautiful film explodes the myth that marshes are wastes and must be "developed" as home or industrial sites. Our coastal marshes are extremely valuable as food-producing areas and nursery grounds for mollusks and certain commercially important fishes as well as nesting and feeding areas for various sea birds and migratory game birds. When garbage trucks followed by bulldozers enter the marshlands, the waters are polluted, spawning grounds are lost, and eventually the fisherman's yield is greatly reduced or even eliminated.

MAURITIUS   30 min. sound - b & w. (59 - PP-WP)

The little island of Mauritius has had a population explosion which is, in microcosm, similar to the growth of world population. This film is a graphic description of the way rapid population growth touches the lives of all the inhabitants of the island - and by extension how population growth influences the lives of all the world's inhabitants.

MEN AT BAY 25 min. sound - color. (39 - PCS)

This case history of the near destruction of San Francisco Bay shows man destroying a beautiful, useful, and well-loved natural resource. The narration consists of the angry, frightened or confused voices of local residents trying to understand what is happening to their bay. Highly recommended. There is a condensed version of this film called The Drowning Bay.

MISS GOODALL AND THE WILD CHIMPANZEES 28 min. sound - color. (25 - NICEM)

The story of a young English girl who embarked on a five-year adventure in jungles of East Africa, observing the daily lives of wild chimpanzees in an attempt to understand the behavior of the chimpanzee in relation to human realization.

MONKEYS AND APES - AN INTRODUCTION TO THE PRIMATES 11 min. sound - color. (15 - NICEM)

Introduces the primates by discussing the characteristics of monkeys, apes and their relatives. Points out their deep-set eyes, flexible fingers and thumb. Explains why they live in the warmer regions of the world and why they often live in trees.

MOUNTING MILLIONS, THE 58 min. sound - b & w. (16 - PCS)

The difficulty of introducing family planning programs to a country riddled with poverty, hunger, illiteracy, religious taboos, city slums, governmental "red tape," and poor agricultural techniques is effectively shown in this documentary about India. Interviews with a writer, a student, an urban planner a newspaper columnist and others provide insight into how Indians view these problems and the prospects for their solution.

MUD 20 min. sound - color. (18 - PCS)

A film of unusually high quality deals with the story of urban erosion and sedimentation. Mud shows problems and their causes and solutions through simple procedures. Urban conservation is the central theme and a new combination of soil conservation and urban engineering emerges from the film as an answer to saving money and conserving natural resources.

MULTIPLY AND SUBDUE THE EARTH 68 min. sound - color or b & w. (16 - ZPG)

A documentary on how Americans are turning once-glorious natural environments into poisonous, cluttered wastelands. Emphasis on overpopulation.

MYTHS AND THE PARALLELS, THE: A STORY OF CONSERVATION 25 min, sound - b & w. (5 - EC)

A history of man's pollution of the North American continent concludes with a sobering assessment of contemporary environmental conditions. Discredits the myths which have justified environmental exploitation and uses parallels from nature to prove that man cannot continue to pollute the environment and survive.

NATION OF SPOILERS, A 10 min. sound - color. (34 - CIFFC)

Beginning with a suitable and rather lengthy dedication to the motives and principles of our ancestors, the film goes into evidence of recent vandalism - litter - and waste. All Americans are indicted for contributing to this problem. Candidly accusing the American public of immaturity, the film attacks the American tendency to waste, emphasizing that the price tag of litter alone is $500,000,000.

NEW FACTS OF LIFE 60 min. sound - color. (16 - FPEM)

Provides information about fertility and infertility research currently being carried out in various parts of the world. The viewer tours laboratories where scientists are trying to find simpler methods of birth control acceptable to all religious faiths. Formerly titled Gift of Choice.

NICE PLACE TO VISIT - BUT, A 3-1/2 min. sound - color. (62 - PCS)

Businessman (Tom Ewell) escorts client from abroad who expects to see "America the Beautiful" but instead views litter, traffic, and air pollution. This humorous sketch is effective for introducing a talk on community improvement.

1985 120 min. sound - color. (131 - PCS)

A somewhat alarming but very useful fictionalized account of an apathetic nation coming to grips with the deadly seriousness of the problems of pollution and environmental degradation. Recommended.

NOISE 10 min. sound - color. (35 - BFA)

What is the difference between sound and noise? How much does noise affect the quality of our lives? How much noise can we tolerate? Are there ways to limit noise pollution? These kinds of questions are raised in the film and there are clues to answers - but primarily the film is designed to promote students' awareness and discussion of this growing problem since ultimately many of the answers must come from these young people.

NOISE 10-1/2 min. sound - color. (39 - PCS)

The din of modern technology and its products is the point of this film. It raises an interesting and meaningful question, "Where will the rising crescendo of deafening decibels end?"

NOISE BOOM, THE 26 min. sound color. (19 - PCS)

Noise is a health hazard. In addition to deafness, it is thought to lead to high blood pressure and arteriosclerosis. The film suggests a number of ways noise pollution can be lessened.

NOISE: THE NEW POLLUTANT 30 min. sound - b & w. (16 - ZPG)

A UCLA acoustical physicist describes the harmful effects of too much noise. Primitive tribesmen in the Sudan who live in a quiet world seem to have perfect hearing, even in old age.

NO ROOM FOR WILDERNESS 30 min. sound - color. (60 - FPEM)

A beautiful film photographed in the African wilderness which describes how civilization and overpopulation have destroyed the delicate balance of nature. The film contains a strong plea for population control as vital to preservation of the wilderness.

NORTH WITH THE SPRING 50 min. sound - color. (165 - PCS)

Focuses on the world's favorite season, spring. It is a time of growth and beginning again, of reaffirmation and high hope. The magnificent color cinematography and spectacular settings compose a hauntingly beautiful odyssey of the passage of spring from the vernal equinox to the summer solstice. The film follows spring on a seventeen-thousand-mile journey from the Florida Everglades to the Canadian Arctic. Highly recommended.

NOT ENOUGH 30 min. sound - color. (43 - PCS)

The countries of India and Thailand are used to provide a study of the necessity of balancing population with food production and technology. An interesting and novel theme developed in this film is the responsibility of all nations to aid underdeveloped countries to improve their quality of life.

NO TURNING BACK 10 min. sound - b & w. (19 - PCS)

A challenge to one of the "sacred cows" of modern life: that all technology is good and will create a better life. The film emphasizes the danger of being committed to technological progress, the dehumanization of cities, and the dangers of environmental pollution.

NUCLEAR POWER AND THE ENVIRONMENT 14 min. sound - color. (61 - PCS)

America s demands for electricity create problems in controlling the effects of nuclear power plants on the environment. The film discusses the care taken in studying and controlling the effects of nuclear power plants. Environmental surveys are conducted to predict and control effects on fish life, ecology, and hydrology. The film also touches upon storage of atomic waste products, the safety of nuclear plants, and the approach to aesthetic values of atomic plant designers.

ON A CLEAR DAY YOU CAN ALMOST SEE TERMINAL TOWER 22 min. sound - color. (4 - AP)

A variety of townspeople are seen attesting to the fact that there is no air pollution in Cleveland. Yes, but they are citizens of Cleveland, Tennessee. Startlingly, the camera then opens on the smog-laden vista of Cleveland, Ohio. This documentary studies the city's air-quality problem in a frank and low-keyed manner. Shown are the principal sources of Cleveland's air pollution and their impact on city life. Interviews are held with experts and concerned laymen who describe some effects of living in a polluted atmosphere.

ONE DIMENSION, TWO DIMENSION, THREE DIMENSION, FOUR 15 min. sound - color. (63 - PCS)

Portrays the plight of urban centers in the United States together with the related problems of pollution, transportation, education, and housing, explaining how these problems affect the people living in urban areas. Points out how some areas have moved to solve these problems and how planning for the future is essential to the survival of cities.

OOPS 20 min. sound - color. (18 - PCS)

Shows how carelessness in an industrial plant can result in stream pollution. Suggests how to guard against such occurrences.

OPEN SPACE 28 min. sound - color. (63 - PCS)

Illustrates the urgent need for acquiring open spaces in rapidly growing urban areas. Stresses the importance of correctly using present urban open spaces, and urges community groups to create new recreational areas in inner cities and suburbs.

OPEN SPACE COMMUNITIES: A NEW ENVIRONMENT FOR AMERICA 30 min. sound - color. (64 - PCS)

Gives examples of housing that is accompanied by privately controlled open space land, an arrangement allowed by regulations and ordinances concerning such things as density planning, planning and development, and cluster planning.

OUR ENDANGERED WILDLIFE 51 min. sound - color. (5 - EC)

Reports on the threat of extinction to seventy-eight species of wildlife. Field trips show the plight of five such species - the Florida Key deer, the whooping crane, Kirtland's warbler, the timber wolf, and the bald eagle - and the efforts of various conservation agencies to preserve them. Stresses the need for a more concerned, more cooperative public.

OVERLOAD 15 min. sound - color. (65 - PCS)

"Where will the next 100 million Americans live?" Against the backdrop of this question, the film projects population densities in the United States and provides an objective view of the developing super-cities. The film touches on the various forms of man-made pollution, crowded highways, and the housing crisis. Some possible long-term solutions are shown.

OVERLOAD IN THE CITIES 15 min. sound - color. (31 - ICF)

Our urban centers are deteriorating faster than we can keep up with even the minimum standards. Air and water are both heavily polluted and now need to be treated as something other than inexhaustible resources.

PALL OVER OUR CITIES 15 min. sound - b & w. (16 - NICEM)

Explains combustion and reveals air pollution sources. Interviews a housewife and a victim of emphysema. Relates experiments in which animals exposed to city air chemicals developed cancer. Observes air pollution research at an auto exhaust testing laboratory. Describes and compares control methods and equipment.

PANDORA'S EASY-OPEN POP-TOP BOX 16 min. sound - color. (63 - PCS)

According to the ancient Greeks the first woman upon whom the Gods bestowed their choicest gifts was Pandora, but Zeus, the all-powerful, also gave her a box which he commanded her never to open. Curiosity overcame her and she lifted the lid of the box, and all forms of misery and evil flew out. Is the onrush of urbanization opening a Pandora's box upon our land and its people? This film was designed to speak for itself, by contrasting the sound and fury of the city with the serene, unspoiled countryside.

PEACE AND VOICES IN THE WILDERNESS 9-1/2 min. sound - color. (35 - BFA)

One of man's continuing problems is to reconcile the difference between what life is like and what it ought to be like. This film shows the idyllic and essentially peaceful nature of life in the wilderness. Against these scenes, we hear the sounds of riot, assassination, and other indications of man's crimes against himself. This sharp and vivid sense of counterpoint stimulates discussion on the effects of and solutions for some of society's major problems.

PEOPLE BY THE BILLIONS   28 min. sound - b & w. (8 - PCS)

As the camera pans over hundreds of newborn infants, the film's narrator comments that "the womb may prove more dangerous than the bomb." The sharp decline of the death rate, which is a main factor in the population explosion, is due to man's ingenuity. Crowded cities, people living in the streets, polluted streams, and urban encroachment on the countryside are vividly presented. Although there is no discussion on how population growth is to be checked, the film is a powerful argument for family planning.

PLANNED FAMILIES   18 min. sound - color. (66 - FPEM)

Combines photography and animation to illustrate functions of the male and female reproductive systems. Discusses mode of action of each method of contraception without recommending any particular one.

POISONED AIR, THE   50 min. sound - color. (4 - AP)

This CBS documentary spans our country and the world with scenes of air pollution disasters. It features interviews with key public officials. Visits are made to a number of American cities by CBS reporters. Representatives from the motor vehicle industry explain Detroit's position with regard to air pollution from cars, trucks and buses. Other highlights of the program include St. Louis' and Pittsburgh's fight for clean air and a look at California's attack on photochemical smog. The importance of citizen action to spearhead air pollution control is demonstrated as a vital element in community control efforts.

POISONS, PESTS AND PEOPLE (2 parts)   60 min. sound - b & w. (8 - CIFFC)

This documentary examines the problem of man's war against insect pests. Part I concentrates on the actual damage caused by locusts, potato beetles, and tobacco worms. It points out that science was forced to find a potent means of protection for man's source of food. It covers in detail the pesticides found effective and makes the point that in coping with an enemy both resilient and resistant the poisons had to be compounded frequently to meet the need.

Part II for possibly the first time in documentary film history emphasizes that there is a danger inherent in the constant compounding of pesticides. It reveals that pesticides when carelessly used or used as part of a mass spraying program may have serious effects on human as well as animal life. All facets of the problem are discussed frankly and openly with doctors, entomologists, conservationists and pesticide manufacturers.

POLLUTION   3 min. sound - color. (67 - AP)

This 3-minute adaptation of Tom Lehrer's famous musical parody on pollution matches the humor and vividness of the song with selected scenes of pollution. Pollution serves well as a useful introductory film on air pollution.

POLLUTION IS A MATTER OF CHOICE 53 min. sound - color. (5 - EC)

An NBC White Paper views the pollution crisis as a problem in priorities: a choice between unlimited technological progress and an abundance of consumer goods on the one hand, and the preservation of the environment on the other. That the choice is not a simple one is shown by the problems which face three American communities.

POND AND THE CITY, THE 16-1/2 min. sound - color. (68 - CIFFC)

This is an impact film which presents a disturbing account of man's current relationship to the land, upon which the security of his future depends. The beautiful natural setting of a pond is contrasted with the problems of a bustling city environment. Implied in the film are a number of questions for the viewer to consider: Is urbanization worth what is being lost? Do I really care about these problems? What can I do to alter the situation?

POOR PAY MORE, THE 60 min. sound - b & w. (16 - PCS)

Investigates ghetto furniture dealers, food chains, food freezer pitchmen, and the telephone company. Filmed on location in New York and San Francisco with concealed cameras. An NET documentary.

POPULATION AND POLLUTION 17 min. sound - color. (33 - IFB)

Describes today's environmental crisis and urges corrective action. Focusing on North America, the film shows that the problems of pollution are caused by misuse of the environment and by the great demands of a constantly growing population. Emphasis is placed on the need for changes in attitude and for a commitment to finding both short-range and long-range solutions to the problems of air, water and land pollution.

POPULATION ECOLOGY 19 min. sound - color. (25 - PCS)

Attacking the topic from a slightly different angle, this film provides a clear and interesting presentation of the problem of population growth and its relation to the forces of nature. Using some scientific - but not too technical - experiments, first with fruit flies, then with bacteria and mice, and finally with grass, rabbits and hawks, the film illustrates that population size in all types of life is limited by the food supply and the environment. The film warns that unless effective worldwide population programs are implemented, such natura or unnatural factors as famine disease, or war will eventually turn the population curve downward.

POPULATION EXPLOSION 15 min. sound - color. (8 - FPEM)

Discusses Thomas Malthus' "Essays on the Principle of Population," shows how advances in medical technology are reducing mortality, giving rise to a great shortage of food for the people of the world. Efforts to increase food production output in underdeveloped nations are explained.

POPULATION PROBLEM, THE (series) sound - color or b & w. (16 - PP-WP)

Film titles are: Brazil: The Gathering Millions; The European Experience; Japan: Answer in the Orient; India: Writings in the Sand; U.S.A.: Trouble in Paradise; New Facts of Life (Developments in Research). See individual film titles for annotation. NET-TV films.

PROBLEM IS LIFE, THE 20 min. sound - color. (8 - FPEM)

With the help of the United Nations, India has started a vast birth control program. This film takes place in an Indian village where a family planning worker makes person-to-person contact with the people, a young doctor in the Family Planning Center gives free contraceptive information, and a vasectomy is performed. Beautiful photography; compelling presentation.

PROBLEMS OF CONSERVATION: AIR 15 min. sound - color or b & w. (25 - EBEC)

A study of the adverse effects of air pollution on health and property. Natural pollutants existed long before man, but harmful pollution did not start until the approach of the Industrial Revolution. This film explains what has caused man-made pollution, and what is being done to help solve the problem.

PROBLEMS OF CONSERVATION: FOREST AND RANGE 14 min. sound - color or b & w. (25 - EBEC)

This film introduces two conservation concepts that may be unfamiliar to many students, especially those living in crowded urban areas. It shows how large areas in the United States are used as productive forest and range land and illustrates the "multiple use" programs of protection and management that lead to effective use of valuable resources within these areas. The film also presents the dilemma facing modern conservationists - the struggle to retain large undeveloped areas while demands for food, lumber, and recreation for the rapidly expanding population press upon these areas.

PROBLEMS OF CONSERVATION: MINERALS 16 min. sound - color or b & w. (25 - EBEC)

What would we do if all the oil were used up? This film shows examples of our reliance on non-renewable minerals and presents several approaches to intelligent conservation measures: finding new sources of minerals; substituting other minerals, such as plastics and fiberglass; and importing ores from foreign countries. Here is a film designed to stimulate student discussions on the effects of mineral depletion.

PROBLEMS OF CONSERVATION: OUR NATURAL RESOURCES 11 min. sound - color or b & w. (25 - EBEC)

Man has come to recognize the need for conservation of his resources - he controls the destiny of his resource supply. This realization has come too late for some aspects of the environment. Appropriate measures need to be taken to save others. This film provides an introduction to man's management of his natural resources, establishes man's reliance on resources, his misuse of some resources and current efforts to conserve resources. A closing thought is that man must control his population and pollution to keep the earth habitable.

PROBLEMS OF CONSERVATION: SOIL 14 min. sound - color or b & w. (25 - EBEC)

What has been done to save our important soil resources? The film shows what soil is and how it is formed - then illustrates the damaging effects of water and wind erosion when the ground cover of vegetation is stripped away. Another damaging depletion is the loss of nutrients in the soil. The film illustrates how these problems may be solved on projects that range from contour plowing to "land-use planning." But the question remains - how can we maintain and increase our food supply as the population expands at an explosive rate?

PROBLEMS OF CONSERVATION: WATER 16 min. sound - color or b & w. (25 - EBEC)

Documents two basic water problems - obtaining an adequate supply of fresh water and maintaining existing supplies. The film identifies communities and localities with water supply problems and shows the pollution of the Great Lakes.

PROBLEMS OF CONSERVATION: WILDLIFE color or b & w. (25 - EBEC)

Analyzes the relationship between living things, including man, and the environment. In the past, environmental changes have caused the decline of species - extinction is a natural process. However, man is the first animal to change the environment so drastically as to cause the wholesale extinction of other species while endangering himself. In this film, man's past and present influence on wildlife species is described. The value of wildlife conservation practices - aesthetic, recreational, commercial and scientific - are shown in detail.

PROBLEM WITH WATER IS PEOPLE, THE 30 min. sound - color or b & w. (8 - NICEM)

Traces the Colorado River watershed from the snow-covered Rockies to the delta in Baja, California. Discusses water usage and equitable division of water, especially between California and Arizona. An NBC -TV film.

QUESTIONS AND ANSWERS ABOUT BIRTH 30 min. sound - color. (17 - PP-WP)

A group of young adults ask Dr. Alan F. Guttmacher the questions they have about birth control. The answers are frank, direct and factual and are supplemented by line drawings and actual contraceptive devices.

RAVAGED EARTH, THE   27 min. sound - color.   (19 - PCS)

Man's greed and his lack of concern for his environment have led to a scarred and torn, eroded and barren, desolate and ravaged land. The strip mine is at fault. This film illustrates how land reclamation works and the impersonal approach of industry to the land and the people involved.

REBELS/271, THE: ECOLOGY OF DESIGN   16 min. sound - color.   (39 - PCS)

A band of students construct a free-form city in the wilderness, determined to create an environment on the scale of man. Through their village of personal structures, the students, guided by their teacher, discover themselves. Then transcending the accomplishment of today, they burn their buildings to the ground..." not a grand finale, but the beginning of another project." One of the rare films that work for many ages, at many levels.

REBIRTH OF A NATION: STORY OF URBAN RENEWAL   (69 - ECIN)

Explains urban renewal process in small and medium-sized cities in nontechnical terms.

REGIONAL REPORT: BIRTH CONTROL   50 min. sound - b & w.   (16 - PP-WP)

A survey of family-planning efforts in six communities. This film shows strides made in several states by public agencies and describes various aspects of Planned Parenthood's work. Also examines public attitudes. An NET-TV film.

RICE   26 min. sound - color or b & w.   (8 - NICEM)

Discusses the importance of rice as the principal food for almost two-thirds of the world's people. Depicts the various ways rice is grown, and describes what is being done to improve its quality and quantity.

RISE AND FALL OF THE GREAT LAKES, THE   18 min. sound - color.   (70 - PCS)

One of the best examples of how a teaching film can also be entertaining. It actually explains the origins of the Great Lakes and raises the question of whether these bodies of water aren't already dead from pollution. A man is depicted paddling around in a canoe and invariably ending up in some humorous situation. The cinematography is outstanding, as are the pacing and entertainment value.

RIVAL WORLD, THE 27 min. sound - color. (47 - PCS)

Throughout history, one of man's most unrelenting enemies has been the insect. Reproducing in inconceivable numbers, insects can in a day or two wipe out crops that man has toiled over for a year, leaving famine and disease as a bitter harvest. The Rival World portrays the struggle between man and the insect as an endless, costly war fought on a global scale. Dramatic sequences take the viewer from Africa, where farmers try to beat back a horde of locusts with palm fronds, to Rome, where an aerial offensive is planned to bring planes and insecticides to the defense of the farmers.

RIVER MUST LIVE, THE 21 min. sound - color. (47 - PCS)

A study of river pollution filmed in Europe but highly applicable for showing here. The emphasis is on overcoming pollution by the treatment of urban and industrial wastes. The film portrays in microscopic detail the organisms which preserve the balance of life in a healthy river and demonstrates how natural mechanisms of self-purification are too slow to handle overloads of pollutants. Known methods - physical separation, chemical and biological purification - are illustrated.

RIVER, WHERE DO YOU COME FROM? 10 min. sound - color. (38 - PCS)

An elementary school film which follows a river from its origin to the sea. The threat of industrial pollution is discussed. The benefits of water to man are shown as well as the destructive potential of a river in flood.

ROOM TO BREATHE 26 min. sound - color. (19 - PCS)

The redevelopment of the Delaware Water Gap and River Valley area is the subject of this film. A massive dam and power plant at Tock's Island is both a threat and a promise; its benefits and liabilities are discussed. The film is hazy as to its purpose.

RUN-AROUND, THE 11 min. sound - color. (4 - AP)

With satirical animation, the film traces the adventures of Mr. Hack, our average man who is determined to track down the sources of air pollution. His search leads him from one pollution source to another, each admitting partial fault, each claiming vast attempts at clearing the air, and each passing the buck on to the next party. At the conclusion of the trip Mr. Hack proves that he too is part of the vast run-around, in placing his own personal interests before the need to participate in the fight against air pollution.

R$_x$ FOR A RIVER 17 min. sound - color. (71, 72, 73 - PCS)

Through live photography and animation, this movie shows how the Lower Mississippi River, left to its own devices, would meander its way to the Gulf of Mexico in an ever-changing pattern of alignment, eroding its banks, breaching the protective levees, destroying property, ruining the navigable channel and disrupting waterborne commerce. In the interest not only of the valley through which this river flows but also of the nation, this situation cannot be tolerated. The overall "prescription" of the Army Engineers to place and maintain the Lower Mississippi in a fixed channel is clearly explained by artwork, and the prosecution of this "channel improvement and stabilization master plan" is shown through actual construction sequences of river-bank revetment, stone and pile dikes, and dredging.

SEARCH FOR ECOLOGICAL BALANCE, A 38 min. sound - color. (132 - PCS)

This film attempts to encourage the preservation of open spaces and natural areas. It is a good introduction to the scientific facts of ecological balance and the problems involved. The threatened marshlands of the southeastern seacoast are visited.

SECRET HUNGER, THE 28 min. sound - b & w. (8 - NICEM)

Traces the struggle of people against want and hunger from birth and childhood in Latin America, through marriage in Africa, adulthood in Asia and old age and renewal at birth in Indonesia. Scenes illustrate the role of the U.N. Food and Agriculture Organization.

SILENT SPRING OF RACHEL CARSON, THE 54 min. sound - b & w. (8 - NICEM)

Discusses Rachel Carson's book The Silent Spring. Explains how poisonous and biologically potent chemicals are used with little or no advance investigation of their effect on soil, water, wildlife and man. A CBS-TV film.

SMALLTOWN, U.S.A. 27 min. sound - b & w. (56 - PCS)

Studies four representative small towns, showing how changing industrial patterns, migration to cities and automation are causing such towns to vanish from the American scene.

SO LITTLE TIME 28 min. sound - color. (56 - PCS)

Tells the story of how the passenger pigeon and the Carolina parakeet were obliterated. Spotlights man's predations.

SOMETHING IN THE WIND 30 min. sound - b & w. (4 - AP)

This three-part documentary presents a compelling picture of pollution in the twin Kansas City areas. It discusses the national air pollution problem, the underlying factors causing pollution, the primary sources of pollution, and many of its economic, social, and health effects. The film focuses on the Kansas City, Missouri and Kansas City, Kansas areas' air pollution problems and reports on their state of control. It also outlines the Federal abatement action procedure, as authorized by the Clean Air Act, and explains the abatement steps which lead to the control of air pollution which crosses state lines.

SQUEEZE, THE 10 min. sound - b & w. (17 - PCS)

This extremely effective film on the consequences of the population explosion is alternately amusing, shocking, moving, and powerful. With a minimum of talk and a lively musical score, it graphically underscores the conditions brought about by overpopulation - every place is crowded (streets, suburbs, slums, beaches, hospitals, etc,). Special photographic effects (speeding up scenes and other devices) contribute to the film's effectiveness.

STUFF WE THROW AWAY, THE 22 min. sound - color. (18 - PCS)

Uncollected garbage and trash...burning dumps...smoking incinerators...and increasing costs...the effects of our "no-deposit-no-return" society. But what can a community do? The answer is to develop a new and better system. But what system is best for your community? The Stuff We Throw Away illustrates a variety of new and improved techniques of solid waste management. Some are conventional methods applied in a new way, others use new equipment to demonstrate whether it is practical and will have general application throughout the country. A good film for seeing what can be done about the solid waste disposal problem.

SUPERFLUOUS PEOPLE 54 min. sound - b & w. (8 - PCS)

Argues that welfare aid is both a material and a moral problem. Employs interviews with occupants of slum areas and city administrators and leaders to make its point. A TV documentary especially useful in family life studies.

SWAMP 10 min. sound - color. (74 - CIFFC)

A Minnesota swamp is turned into a dump, apparently as an after-effect of urban development. The result is the destruction of the wildlife which previously had made its home in this particular wetland area. In order to bolster its points, the film shrewdly includes most attractive photography not only of the natural bird and other animal habitats but of their encroaching fate. Although lack of narration may prove a handicap in exact identification of the wildlife, there are moments of such great beauty and startling photography that it may be classified as an outstanding film quite apart from its point of view.

TAKE A DEEP BREATH 25 min. sound b & w. (75 - NICEM)

Dramatizes the potential threat of air pollution to a young boy's lungs and portrays the crippling illness of an elderly victim of emphysema. Discusses the need for voluntary action by industry and the public to achieve pollution control.

TEAMWORK ON THE POTOMAC 29 min. sound - color. (76 - PCS)

An effective presentation of the before-and-after story of the historic Potomac River. The film illustrates how one of America's most polluted rivers is being restored to its natural state. The efforts of industrial and government agencies to provide treatment of industrial and municipal wastes are discussed and the effects of these efforts are evaluated.

THINGS I CANNOT CHANGE, THE 55 min. sound - b & w. (8 - NFBC)

A view of what poverty means to family life, filmed from the inside over a three-week period. The location is Montreal where the family from "down east" have not been able to get properly established. With the father unemployed, bitter, and often at odds with police and welfare officials, there seems little hope. The film makes no comment other than what it shows and what is said by the people on the screen.

THIRD POLLUTION, THE 23 min. sound - color. (44, 77 - HEF)

This is a film about solid waste management. Burning refuse contributes to air pollution and dumping it contaminates ground water supplies. In addition, the collection and disposal of solid wastes is expensive and technically challenging. Municipalities are abandoning earlier haphazard methods and are switching to more sophisticated public works procedures. It describes the various alternatives which are available.

TIME OF MAN, THE 50 min. sound - color. (78 - AMNH)

The Time of Man is a thoughtful, stimulating and brilliant exposition of the basic meaning of the word environment. Starting with the evolution of the earth from a cloud of gas to a sea-covered planet able to sustain life, the interrelationship of creatures and environment is shown in a new perspective. Animals are seen to have survived, or perished, according to their ability to adapt to the environment. The film shows the development of primitive man and focuses on several primitive groups whose life styles so clearly reflect their attitudes toward the environment: the Pygmies, the Bantu, the IK, the Dugum Dani, and the Peri. By seeing this film, we can better understand what is happening today and why. Our environment has been tampered with. Our ability to survive is seen to be our ability not only to alter and interfere with the environment but also to maintain it so that life itself may be maintained.

TIME TO LIVE 28-1/2 min. sound - color. (36 - TRR)

Low-cost, abundant energy has contributed incalculably toward eliminating back-breaking labor, increasing our mobility, and providing leisure for meditation, study, and recreation.

TO CLEAR THE AIR 22 min. sound - color. (36 - TRR)

This film focuses on the present crucial point in history when most of us are fully aware of the complexity of the air pollution problem and at the same time are racing to obtain research data that will provide us with some definitive solutions. Also featured are some of the roles that industry, government, and individuals can play in the fight for cleaner air.

TO EACH A RIGHTFUL SHARE 28 min. sound - b & w. (8 - FPEM)

Contrasts the "have" and "have-not" nations, showing the tremendous waste by Western society in the use of its resources. Points out that we are now consuming raw materials of the underdeveloped nations to maintain this wastefulness.

TOMORROW'S WORLD: FEEDING THE BILLIONS 54 min. sound - b & w. (8 - FPEM)

Describes the gravity of the present population explosion in terms of the danger of widespread food shortages. Deals primarily with the various ways man has devised to increase the amount of food available and considers new ways of harnessing the earth's resources - such as farming the oceans.

TO PLAN YOUR FAMILY 14 min. sound - color. (26 - PCS)

Utilizes animation to describe reproductive physiology and contraceptive methods. Includes lively, believable photographed interviews with satisfied users of pills and IUDs.

TOWN PLANNING 15 min. sound - b & w. (8 - NFBC)

A graphic illustration of how the science of town planning can be directed toward the replanning of a city so that mistakes of the past may be corrected and a result achieved in which business, residential, and industrial areas are properly zoned. The film contrasts random growth with the systematic direction that can produce beautiful, efficient, comfortable cities.

TOWNSCAPE REDISCOVERED 29 min. sound - color. (79 - ECin)

Program of urban renewal accomplishments in Victoria, British Columbia.

TRAGEDY OF THE COMMONS, THE 20 min. sound - color. (14, 39 - PCS)

Based on the widely published article by famed biologist Garrett Hardin, The Tragedy of the Commons is one man's impassioned but closely reasoned plea for a common-scene approach to survival. In a world where each is encouraged to consider his own good before that of his fellows, how long can we survive? Filmed on locations across the country, this film details the causes and effects of man's headlong rush toward disaster.

TREASURE IN A GARBAGE CAN 20 min. sound - b & w. (53 - NICEM)

Shows how garbage and rubbish collections are carried on in the city of Los Angeles and stresses the salvage procedures which utilize all possible material.

TREASURE OF THE FOREST 13 min. sound - b & w. (8 - NFBC)

A film on the industries that draw their wealth from the raw material of the forest. Dramatic sequences filmed in the rain forests of British Columbia show the world's greatest lumbering operations: how giant conifers are felled, transported by water routes to sawmills, and cut into lumber or reduced to newsprint. Planned cutting and reforestation is also shown.

TREATMENT WAS SUCCESSFUL, BUT THE PATIENT DIED, THE 30 min. sound - b & w. (42 - NICEM)

Discusses the different types of water pollution and how they affect industry, wildlife and plants. Demonstrates natural pollution and nature's counteraction Stresses sewage disposal problems. Describes possible solutions to the water pollution problem.

TREE HOUSE 9 min. sound - color. (14 - PCS)

Can man live in the world without obliterating its beauty? Tree House is a charmingly told tale of a bulldozer operator who befriends a young boy who has built a tree house on the edge of a site the man has been assigned to clear.

TROUBLED CITIES, THE 60 min. sound - b & w. (16 - NICEM)

Examines the attempts being made to solve problems brought about by the urban population explosion. An NET-TV film.

TWENTIETH CENTURY RIVER 29 min. sound - color. (18 - PCS)

A substantive dissertation on the process of river development wherein the Corps of Engineers and other federal agencies and local interests join forces to plan how and to what extent a river basin should be developed. The citizen's role in this process is emphasized.

UNDER ONE ROOF 26 min. sound - color. (80 - PCS)

Artistic and well-photographed documentary film tells the stories of three families - two Negro and one white - and the various problems they face as a result of too many children. In their own words, the women of these families tell of the economic, physical and psychological problems associated with large families. Narrator provides commentary on each family situation to unify film. No contraceptive advice is given, although frequent reference is made to family planning.

UPROOTED NATION, THE 22 min. sound - color. (26, 56 - NICEM)

Studies the vast continuous population movements within the United States and their social and psychological causes and effects. Stresses how community life and schools are affected. City planners, demographers, students and others state their views.

UP TO OUR NECKS: THE GARBAGE PROBLEM 25 min. sound - color. (5 - EC)

Documents the colossal problem of waste disposal in modern society and explores some of the alternatives now available in the search for solutions.

URBAN SPRAWL VS. PLANNED GROWTH 21 min. sound - color. (18 - PCS)

Focuses on the approach to zoning and planning that can protect natural resources and produce quality urban communities. The pressures that influence zoning systems are investigated and a detailed explanation of the Brandywine Plan is presented. Rural or urban transition is the theme of the film and a number of alternatives are examined. Citizens concerned about uncontrolled urban growth, as well as those interested in the technical requirements and political processes necessary for conservation and community planning, would benefit from seeing this film.

U.S.A. - TROUBLE IN PARADISE 60 min. sound - b & w. (16 - PCS)

Analyzes population trends in the United States, focusing on the "baby boom" following World War II and the increasing number of senior citizens today. Designed to alert viewers to America's increasing population problem.

WANDERING THROUGH WINTER 50 min. sound - color. (165 - PCS)

A leisurely, winding 20,000-mile trail that begins at the Silver Strand, just below San Diego, Calif., finally brings the camera - and the viewer - to the extreme northeastern corner of the United States, above Caribou in Maine. The pacing is such as to impart almost a tender, pastoral quality to this film, which will probably be thought of as the keystone to the We Need Each Other Series. Wandering Through Winter is distinguished by extremely beautiful color photography with fantastic close-ups of animals in their natural habitats. A superb musical background and carefully detailed narrative add to the impact this film makes on audiences of all levels.

WATER 15 min. sound - color. (81 - ZPG)

Winner of awards in three international film festivals, this animated film has a simple but urgent theme: we are on the verge of an international water crisis. Live action, animation and collage are all used to underscore the fact that advanced countries, such as the U.S., face problems as serious as those usually associated with underdeveloped arid lands. The film points out that national boundaries are a problem we must solve.

WATER FAMINE, THE 54 min. sound - b & w. (24 - NICEM)

Explores the problems of water shortage and pollution. Shows the importance of water for world growth, health and industry. Demonstrates two desalinization methods--flash freezing and electrodialysis. A CBS-TV film.

WATERFOWL - A RESOURCE IN DANGER 17 min. sound - color or b & w. (8 - NFBC)

The prairies are the incubators of vast numbers of waterfowl, principally ducks, but as more land is drained and cultivated there are fewer breeding grounds. This film shows the immense flocks of birds, their habits, and their dependence on the wetlands of the prairies. How to maintain living space for the ducks without fields is a problem being studied by wildlife conservationists.

WATER - OLD PROBLEMS, NEW APPROACHES 29 min. sound - color. (5 - EC)

Discusses the global water shortage and introduces the science of hydrology. Presents basic information on the water cycle and sources of water supply on earth. Travels to many geographical locations to view projects in desalination, evaporation reduction, water reclamation, and pollution control.

WATER - PATTERN OF LIFE 28-1/2 min. sound - color. (82 - CIFFC)

Clearly, cleverly, persuasively, this film develops the story of the water problems in Ohio. Beginning with a simple explanation of the water cycle, it introduces and emphasizes the inevitable pressures of modern man's demand upon water reserves. Shrewdly and humorously animated, these demands are dramatized as industry, government and people themselves seek the use of water for their particular interests. It illustrates progress made by the state in planning the use of the water, its storage, its battle against pollution and the constant need of long-range planning for the future. But the film's impact and usefulness reach far beyond Ohio. It serves as a definitive documentary which should be used by teachers, planning groups and students of a natural resource which knows no boundaries.

WATER POLLUTION: CAN WE KEEP OUR WATER CLEAN? 13 min. sound - color. (5 - EC)

What causes a clean, fresh mountain stream to turn into a dead, polluted river? A river journey identifies six sources of contamination: the litterbug, the farm, the industrial plant, the ship, the nuclear power plant, and the city. Suggests ways in which young people can help prevent water pollution.

WEALTH OF THE WASTELAND 28 min. sound - color. (5 - EC)

Shows that the waste materials of our affluent society are noxious, unsightly, abundant, and potentially valuable as a source of metals and other mineral products that are essential to industrial and economic expansion. Presents research activities sponsored by the U.S. Bureau of Mines aimed at reclamation of auto scraps and the hundreds of thousands of tons of metals now lost in wastes from municipal incinerators.

WE NEED EACH OTHER (series) sound - color. (165 - FCS)

A film series - see annotations on the following for complete descriptions: North With The Spring, Journey Into Summer, Autumn Across America, and Wandering Through Winter.

WHAT ARE WE DOING TO OUR WORLD? (Part I) 25 min. sound - color. (5 - EC)

Examines the way technology is altering our environment and pleads desperately for conservation. Part I focuses on Lake Erie, which during the past fifty years has been clogged with sewage and made biologically inert. It discusses the "greenhouse effect" and the disastrous effect on the earth's temperatures which increased air pollution may have and investigates the potential environmental hazards of nuclear power plants.

WHAT ARE WE DOING TO OUR WORLD? (Part II) 25 min. sound - color. (5 - EC)

Examines the way technology is altering our environment, presenting three case studies: an ecosystem under study in New Hampshire; the Everglades, where drought and flood control are bringing doom to a unique sanctuary for wildlife; and the Panama Canal Zone, where the ecological effects of a new sea-level canal are discussed.

WHAT IS ECOLOGY? 11 min. sound - color or b & w. (56 - EBEC)

Introduces the study of ecology by illustrating the wide variety of interrelationships among plants, animals, and their environment. Shows how biologists study these interrelationships and explains the importance of such studies to mankind. The major biomes of the world are introduced.

WHAT'S NEW IN SOLID WASTE MANAGEMENT 37 min. sound - color. (18 - FCS)

This film is intended to provide data to permit a comparative analysis of new systems of solid waste management. Semi-technical, yet understandable to non-technicians. Examples of systems examined are: refuse milling, fluidized bed incineration, composting, above-grade landfilling.

WHO KILLED LAKE ERIE? 53 min. sound - color. (5 - EC)

A case study of Lake Erie - now biologically inert - reveals the causes and consequences of water pollution. Points out the economic factors which foster pollution and views the death of Lake Erie as the first large-scale warning that man is in danger of destroying the human inhabitability of the earth.

WHO OWNS THE BOTTOM OF THE OCEAN? 15 min. sound - color. (31 - ICF)

The exploration of the continental shelf leads us not only to look at the resources in minerals and food which are opening up to man's use, but also to a new field in international law. What are the steps the nations of the world might take to assure freedom to harvest the resources of the oceans?

WHO OWNS THE MOON? 15 min. sound - color. (31 - ICF)

Legal and social problems never before encountered are created by man's thrust into the planetary system. Solutions will require new concepts of law and closer cooperation among the nations of the world. If there are vast mineral resources on the moon, who will own them?

WILD RIVER 14 min. sound - color. (83 - NICEM)

Depicts the beauty of wild river regions. Explains the value of rivers for recreation, as havens for wildlife, and as water supply for towns. Shows how water resources may be polluted by refuse, oil, and chemicals and stresses the need for conservation.

WITH EACH BREATH 30 min. sound - color. (4 - AP)

Against a background of the general air pollution problem, the film depicts New York State's approach to air pollution. The viewer is led through the following State activities: development of air quality standards for types of sources; control of motor vehicle pollution; expanded State program of research; streamlined administration and enforcement; provision for tax incentives; improvement of power generation sources; State aid for planning; and expanded interstate activity.

WOODLAND MANNERS 19 min. sound - color. (3 - PCS)

A national forest is the setting for a dramatic contrast between litterbugs who carelessly scatter trash and a well-behaved family cleaning up after a camping trip.

YOUR LIVING ROOM 25 min. sound - color. (84 - PCS)

Geared for kindergarten through 4th grade, film is narrated by a 12-year old boy taken on a trip by "The Spirit of Clean Outdoor Living." The "Spirit" scolds the boy for careless littering.

UNANNOTATED LIST OF FILMS
FOR
POPULATION-ENVIRONMENT STUDIES

PREPARED BY THE

POPULATION CURRICULUM STUDY
UNIVERSITY OF DELAWARE

INDEX OF TOPICS FOR UNANNOTATED FILMS

Africa
Africa - Egypt
Agriculture
Air Pollution
Anthropology
Archaeology
Asia
Asia - China
Asia - India
Asia - Japan
Asia - Vietnam
Automation
Biology - Adaptation
Biology - Ecology
Biology - Evolution
Biology - Heredity and Reproduction
Biology - Marine
Biology - Miscellaneous
Birth Control
City
City Planning
Conservation
Earth Science - Physical Geography
Economics
Energy
Europe
Geography - Human and Cultural
Latin America
Latin America - Chile
Latin America - Colombia
Latin America - Mexico
Latin America - Venezuela
Medical - Health
Medical - Sanitation
Middle America
Noise
Nutrition
Peace
Pesticides
Poverty and Hunger - World
Resource Management
Sociology - Adolescence
Sociology - Aging
Sociology - Migration and Migrants
Sociology - Miscellaneous
Technology
Transportation
United Nations
U.S.A. - Economy
U.S.A. - Geography
U.S.A. - Population
U.S.A. - Poverty
U.S.A. - Urban Problems
Waste Disposal
Water Pollution
Water Resource Management

TOPICAL INDEX OF UNANNOTATED FILMS

AFRICA

African Continent - An Introduction - 16 min. sound - color. (12)
African Continent - Northern Region - 14 min. sound - color. (12)
African Continent - Southern Region - 11 min. sound - color. (12)
African Continent - Tropical Region - 14 min. sound - color. (12)
Economy of Africa, The - 13 min. sound - color or b & w. (8)
Economy - Oil, Water and Aspirations, The - 24 min. sound - b & w. (8)
Life in an Oasis - North Africa - 11 min. sound - color or b & w. (12)
Northern Africa - Water and Man - 16 min. sound - color or b & w. (8)
Oasis - 11 min. sound - color. (25)
Oasis of the Sahara - 8 min. sound - color or b & w. (8)
Problems of Emerging Nations - 11 min. sound - color. (98)

AFRICA - EGYPT

Ancient Egyptian, The - 27 min. sound - color. (123)
Making Modern Egypt - 10 min. sound - color. (124)
Modern Egypt - 11 min. sound - color. (98)
Nile in Egypt, The - 11 min. sound - color or b & w. (12)
River Nile, The - 54 min. sound - color. (8)

AGRICULTURE

Farmer of the World - 28 min. sound - color. (3)
Food and Soil - 11 min. sound - color. (40)
Food and the Future - 28 min. sound - color. (99)
Government and Agriculture - 30 min. sound - b & w. (25)
Harvest - 28 min. sound - color. (100)
Horizon - 29 min. sound - color or b & w. (101)
Land, The - 54 min. sound - b & w. (8)
Land - Legacy and Promise, The - 27 min. sound - color. (102)
Man on the Land - 16 min. sound - color. (36)
Miracles From Agriculture - 14 min. sound - color. (42)

AIR POLLUTION

Air Around Us, The - 26 min. sound - color. (103)
Air Pollution in the New York-New Jersey Interstate Area - 15 min. sound - color. (4)
Control of Air Pollution - 5 min. sound - color. (42)
Effects of Air Pollution - 5 min. sound - color. (63)
Expedition - City Fallout - 28 min. sound - b & w. (104)
Sources of Air Pollution - 5 min. sound - color. (42)
This Business of Air - 30 min. sound - color. (4)

ANTHROPOLOGY

Earth Science - Parade of Ancient Life - 15 min. sound - color or b & w. (16)
Feast, The - 29 min. sound - color. (61)
Gentle Winds of Change - 33 min. sound - color. (14)
Great Unfenced, The - 33 min. sound - color. (8)
Margaret Mead - 30 min. sound - b & w. (25)
New Lives for Old - 20 min. sound - color. (105)
Primates - 28 min. sound - color or b & w. (8)
Primitive Man in Our World - 12 min. sound - color. (106)
Stone-Age Americans - 21 min. sound - color. (33)
Story of Prehistoric Man, The - 11 min. sound - b & w. (56)

ARCHAEOLOGY

Digging Up the Past - 24 min. sound - color. (107)
Journey Into the Past - 21 min. sound - color or b & w. (33)
Prehistoric Man in Europe - 23 min. sound - color. (33)

ASIA

Asia - A Continental Overview - 16 min. sound - color or b & w. (12)
Nutrition Survey - Kingdom of Thailand - 40 min. sound - color. (125)
Nutrition Survey - Republic of Lebanon - 21 min. sound - color. (125)
Orient - Peoples of Asian Lands, The - 17 min. sound - color or b & w. (108)

ASIA - CHINA

China - The Awakening Giant - 17 min. sound - color or b & w. (8)
China - The Industrial Revolution - 16 min. sound - color. (8)

ASIA - INDIA

Crisis - 10 min. sound - b & w. (126)
Great Problem, A - 7 min. sound - color. (126)
India - Asia's Subcontinent - 17 min. sound - color. (127)
India - People in Transition - 17 min. sound - color. (127)
Nutrition - 26 min. sound - color or b & w. (125)

ASIA - JAPAN

Answer in the Orient - 30 min. sound - color or b & w. (16)
Japan - East Is West - 23 min. sound - color or b & w. (8)
Japanese Village - 17 min. sound - color. (128)
Japanese Village (Elementary Version) - 17 min. sound - color. (128)
Japan - Harvesting the Land and Sea - 27 min. sound - color or b & w. (25)
Japan - Miracle in Asia - 30 min. sound - color or b & w. (25)
Japan - Pacific Neighbor - 16 min. sound - color. (106)
Japan's Food from Land and Sea - 12 min. sound - color. (124)

ASIA - VIETNAM

Nutrition Survey - Republic of Vietnam, The - 36 min. sound - color. (125)
Other Vietnam, The - 29 min. sound - color. (63)

AUTOMATION

Nineteen Sixty-Four - 54 min. sound - color or b & w. (8)
What is Automation - 14 min. sound - color or b & w. (15)

BIOLOGY - ADAPTATION

Adaptation in Animals - 16 min. sound - color or b & w. (8)
Adaptation in Plants - 16 min. sound - color or b & w. (16)
Adaptations for Survival: Birds - 14 min. sound - color. (33)
Adaptation to Ocean Environments - 11 min. sound - color. (35)
Adapting to Changes in Nature - 10 min. sound - color or b & w. (10)
Animal Adaptations in a Northern Environment - 11 min. sound - color. (35)
Living Mammal, The - 17 min. sound - color. (33)

BIOLOGY - ECOLOGY

Desert Ecology - 14 min. sound - color. (33)
Environment and Survival - Life in a Trout Stream - 10 min. sound - color. (15)
Food Cycle and Food Chains, The - 11 min. sound - color. (12)
Grasslands, The - 17 min. sound - color or b & w. (25)
Hot Dry Desert - 16 min. sound - color. (106)
Life in a Vacant Lot - 10 min. sound - color or b & w. (25)
Life in the Deciduous Forest - 19 min. sound - color. (33)
Limiting Factors - 28 min. sound - color or b & w. (8)
Living Jungle, The - 26 min. sound - color. (109)
Marine Ecology - 28 min. sound - color or b & w. (8)
Marshes of the Mississippi - 13 min. sound - color. (129)
Marshlands - 11 min. sound - color. (119)
Marsh Treasures - 13 min. sound - color. (129)
One Day at Teton Marsh - 47 min. sound - color. (127)

BIOLOGY - ECOLOGY (continued)

Physical Environment, The - 11 min. sound - color or b & w. (25)
Plant and Animal Distribution - 28 min. sound - color or b & w. (8)
Plant-Animal Communities - Physical Environment - 11 min. sound - color or b & w. (12)
Tree, The - 10 min. sound - color or b & w. (26)
Vacant Lot - 21 min. sound - color. (33)
World in a Marsh - 22 min. sound - color. (8)

BIOLOGY - EVOLUTION

Darwin and Evolution - 28 min. sound - color or b & w. (8)
Darwin's Finches - Clues to the Origin of Species - 11 min. sound - color. (15)
Evolution of Man - 28 min. sound - color or b & w. (8)
Message From a Dinosaur - 11 min. sound - color. (25)
Natural Selection - 16 min. sound - color or b & w. (25)
Natural Selection and Adaptation - 28 min. sound - color or b & w. (8)
Origin of Life - 28 min. sound - color. (56)
Water and Life - 15 min. sound - color or b & w. (8)

BIOLOGY - HEREDITY AND REPRODUCTION

DNA - Molecule of Heredity - 16 min. sound - color or b & w. (25)
Egg and Sperm, The - 28 min. sound - color or b & w. (8)
Fertilization - 28 min. sound - color or b & w. (8)
Fertilization Process - Problems and Phases - 28 min. sound - color or b & w. (8)
From Generation to Generation - 27 min. sound - color. (8)
Hereditary Basis of Evolution - 28 min. sound - color or b & w. (8)
Human and Animal Beginnings - 13 min. sound - color. (34)
Human Heredity - 18 min. sound - color. (34)
Human Reproduction - 21 min. sound - color or b & w. (8)
Laws of Heredity - 15 min. sound - color or b & w. (25)
Mammals and Their Characteristics - 11 min. sound - color or b & w. (12)
Nature and Nurture - 28 min. sound - color or b & w. (8)
Nature of Diversity - 28 min. sound - color or b & w. (8)
Origin of Species, The - 30 min. sound - b & w. (8)
Patterns of Reproduction - 28 min. sound - color or b & w. (8)
Species - Stability and Change - 28 min. sound - color or b & w. (8)
Thread of Life, The - 60 min. sound - color. (110)

BIOLOGY - MARINE

Between the Tides - 26 min. sound - color. (109)
Fish in a Changing Environment - 11 min. sound - color or b & w. (25)
Land of the Sea - 26 min. sound - color. (109)
Life Between Tides - 11 min. sound - color or b & w. (25)
Man Invades the Sea - 28 min. sound - b & w. (8)
North Pacific - 27 min. sound - color. (8)

BIOLOGY - MISCELLANEOUS

Animal and the Environment, The - 28 min. sound - color or b & w. (8)
Animal - Vegetable - Mineral - 11 min. sound - color. (98)
Army Ants - A Study in Social Behavior - 19 min. sound - color or b & w. (25)
Around a Big Lake - 17 min. sound - color. (33)
Behavior in Animals - 15 min. sound - color or b & w. (8)
Food - Energy From the Sun - 10 min. sound - color. (15)
Food From the Sun - 9 min. sound - color or b & w. (25)
Fresh Water Pond, The - 13 min. sound - color or b & w. (25)
Insects That Help Us - 11 min. sound - color or b & w. (15)
Instincts in Animals - 10 min. sound - color. (10)
Life From the Sun - 15 min. sound - color. (33)

BIRTH CONTROL

Confidence by Choice - 30 min. sound - color. (118)
Fertility Control and the Physician - 44 min. sound - b & w. (17)
Introduction to Birth Control - 15 min. sound - color. (17)
Pill Clinic, The - 30 min. sound - b & w. (133)
Termination of Pregnancy by Vacuum Aspiration - 15 min. sound - color. (130)

CITY

Ancient Cities of the East - 20 min. sound - color. (98)
City, The - 11 min. sound - color. (25)
City and Its People, A - 12 min. sound - color or b & w. (15)
Lewis Mumford on the City - 28 min. sound - color. (8)
Megalopolis - Cradle of the Future - 22 min. sound - color. (25)
Metropolis - 30 min. sound - b & w. (25)
Metropolis--Creator or Destroyer? - 30 min. sound - b & w. (16)

CITY PLANNING

All of the People All of the Time - 28 min. sound - color. (9)
Baltimore Plan, The - 21 min. sound - b & w. (25)
Best We Can Do, The - 15 min. sound - color. (103)
Costly Crowd, The - 15 min. sound - color. (112)
How To Look At A City - 30 min. sound - b & w. (16)
Living City, The - 26 min. sound - b & w. (25)
Monterey Project - 25 min. sound - color. (113)
No Time for Ugliness - 27 min. sound - color. (103)
Suburban Living - Six Solutions - 59 min. sound - b & w. (8)
Urban Government - Prospects and Portents - 30 min. sound - b & w. (25)
Urban Sprawl - 15 min. sound - color. (114)

CONSERVATION

Conserving Our Soil Today - 11 min. sound - color. (12)
Conserving Our Water Resources Today - 11 min. sound - color or b & w. (12)
Gifts of Tomorrow - 24 min. sound - color. (117)
Let's Keep America Beautiful - 14 min. sound - color. (44)
National Parks - Our American Heritage - 17 min. sound - color. (106)
Oregon and Its Natural Resources - 27 min. sound - color. (134)
Progress - Pork Barrel - And Pheasant Feathers - 27 min. sound - b & w. (8)
This Land - 11 min. sound - b & w. (13)
Vanishing Prairie - Large Animals that Once Roamed the Plains - 12 min. sound - color. (127)
Vanishing Prairie - Pioneer Trails, Indian Lore and Bird Life of the Plains - 14 min. sound - color. (127)
Vanishing Prairie - Small Animals of the Plains - Their Struggle for Survival - 15 min. sound - color. (127)
Vanishing Prairie - The Buffalo - Majestic Symbol of the American Plains - 12 min. sound - color. (127)

EARTH SCIENCE - PHYSICAL GEOGRAPHY

Atmosphere and Life on Earth - 11 min. sound - color. (98)
Changing Forest, The - 18 min. sound - color. (8)
Earth - Changes in Its Surface, The - 11 min. sound - color. (12)
Earth in Evolution, The - 11 min. sound - color. (98)
Earth - Its Atmosphere, The - 11 min. sound - color or b & w. (12)
Earth - Its Oceans, The - 14 min. sound - color or b & w. (12)
Earth - Its Structure, The - 11 min. sound - color. (12)
Earth - Resources in Its Crust, The - 11 min. sound - color or b & w. (12)
Earth's Changing Surface, The - 11 min. sound - color or b & w. (8)
Erosion - 11 min. sound - b & w. (40)
Erosion - Leveling the Land - 14 min. sound - color or b & w. (25)
Face of the World - 29 min. sound - color. (16)
Focus on Erosion - 11 min. sound - b & w. (135)
Rain - 10 min. sound - color. (33)
Riches of the Earth - 16 min. sound - color. (8)
Rivers - 12 min. sound - color or b & w. (16)
River Valley - 11 min. sound - color or b & w. (25)
Soil and Life, The - 14 min. sound - color or b & w. (108)
Stream, The - 15 min. sound - color. (33)
Sun's Energy, The - 17 min. sound - color or b & w. (136)
Water and Life on Earth - 11 min. sound - color. (98)

ECONOMICS

Case for Competition, The - 30 min. sound - b & w. (24)
Economic Growth - 30 min. sound - b & w. (16)
Economic Impact of the Revolution, The - 30 min. sound - b & w. (25)
Economics in Action - 13 min. sound - color. (119)
Economics - It's Elementary - 10 min. sound - color or b & w. (120)

ECONOMICS (continued)

Government and Business - 30 min. sound - b & w. (25)
Production and Marketing - 30 min. sound - b & w. (16)
Productivity - Key to America's Economic Growth - 28 min. sound - color or b & w. (121)
Pursuit of Happiness the Materialistic Way - 4 min. sound - color. (122)
Role of the Market, The - 30 min. sound - b & w. (16)

ENERGY

Development of Power, The - 11 min. sound - color. (98)
Energy and Its Forms - 11 min. sound - color or b & w. (12)
Energy and Power - A First Look - 10 min. sound - color or b & w. (10)
Energy From the Sun - 17 min. sound - color or b & w. (8)
Tidal Power - 22 min. sound - color. (137)

EUROPE

Eastern Europe - An Introduction - 14 min. sound - color or b & w. (12)
European Culture Region, The - 25 min. sound - color or b & w. (8)
European Economic Community, The - 14 min. sound - color or b & w. (12)
Low Countries - Very Much Alive, The - 18 min. sound - color. (8)

GEOGRAPHY - HUMAN AND CULTURAL

Foods Around the World - 11 min. sound - color or b & w. (12)
Land Forms and Human Use - 11 min. sound - color or b & w. (12)
World Full of Homes, A - 12 min. sound - color. (8)

LATIN AMERICA

Latin America - Neighbors to the South - 17 min. sound - color or b & w. (108)
Latin America, Pt. 1, Its Countries - 26 min. sound - b & w. (8)
Latin America, Pt. 2, Its History, Economy, and Politics - 33 min. sound - b & w. (8)

LATIN AMERICA - CHILE

Chile Nutrition Survey - 35 min. sound - color. (138)

LATIN AMERICA - COLOMBIA

Nutrition Survey - Republic of Colombia, 1960 - 28 min. sound - color. (125)

LATIN AMERICA - MEXICO

Mexico, Pt. 1, Northern and Southern Regions - 17 min. sound - color or b & w. (8)
Mexico, Pt. 2 - Central and Gulf Coast Regions - 18 min. sound - color or b & w. (8)

LATIN AMERICA - VENEZUELA

Delta of the Orinoco - 26 min. sound - color. (109)
Venezuelan Prairie - 26 min. sound - color. (109)

MEDICAL - HEALTH

And the Earth Shall Give Back Life - 25 min. sound - color or b & w. (139)
Ann's Additive Story - 15 min. sound - color. (140, 141)
Dance Little Children - 25 min. sound - color. (142)
Ethics of Transplants, The - 30 min. sound - color. (143)
Flabby American, The - 27 min. sound - b & w. (8)
Journey in Health - 22 min. sound - color. (144)
Man Made Man - 54 min. sound - color. (16)
Matter of Protection, A - 28 min. sound - color. (42)
Medical Asepsis - 42 min. sound - b & w. (42)
More Than Anger - 24 min. sound - color. (44)
Spare Parts for Human Bodies - 15 min. sound - color. (65)
Time of Hope, A - 14 min. sound - color. (145)
Unseen Enemies - 32 min. sound - color. (47)

MEDICAL - SANITATION

Fly Control Through Basic Sanitation - 9 min. sound - color. (63)
It Must Be the Neighbors - 14 min. sound - color. (63)
Malaria Control on Impounded Water - 19 min. sound - color. (63)
Modern Mosquito Control - 30 min. sound - color. (43)
Mosquito Prevention in Irrigated Areas - 7 min. sound - b & w. (63)
Plague Control - 21 min. sound - color. (63)
Rat Problem, The - 16 min. sound - b & w. (63)

MIDDLE AMERICA

Middle America - The Land and The People - 22 min. sound - color or b & w. (8)
Puerto Rico: The Caribbean Americans - 22 min. sound - color. (33)

NOISE

Noisy Landscape, The - 14 min. sound - color. (103)

NUTRITION

And One to Grow On - 12 min. sound - color. (44)
Best Way to Eat, The - 26 min. sound - color. (44)
Food, The Color of Life - 23 min. sound - color. (64)
Four Food Groups - 11 min. sound - color. (95)
Hail the Hearty - 28 min. sound - color. (44)
Nutritional Needs of Our Bodies - 11 min. sound - color. (12)
Stanley Takes a Trip - 10 min. sound - color or b & w. (8)
Understanding Vitamins - 14 min. sound - color. (44)
Vitamins - 29 min. sound - b & w. (13)

PEACE

Hat, The - 18 min. sound - color. (124)

PESTICIDES

Chemical Biocides - 7 min. sound - color. (146)
Health Hazards of Pesticides - 14 min. sound - color. (63)
Perspective on Pesticides - 15 min. sound - color. (44)
Safe Use of Pesticides - 21 min. sound - color. (42)

POVERTY AND HUNGER - WORLD

Good Earth - Famine Sequence, The - 13 min. sound - b & w. (147)
Lady Barbara Ward Jackson - 23 min. sound - b & w. (25)
Long March, The - 38 min. sound - color. (148)

RESOURCE MANAGEMENT

Allocating Our Resources - 30 min. sound - b & w. (24)
Nation's Resources, The - 30 min. sound - b & w. (16)
Tale of Two Planets - 16 min. sound - color. (149)

SOCIOLOGY - ADOLESCENCE

Adolescent Years, The - 27 min. sound - b & w. (13)
Game, The - 30 min. sound - b & w. (8)
Quarter Million Teenagers, A - 16 min. sound - color. (26)
Umbrella, The - 28 min. sound - b & w. (8)
Young Americans, The - 60 min. sound - b & w. (16)

SOCIOLOGY - AGING

Old Age - Out of Sight Out of Mind - 60 min. sound - b & w. (16)
Old Age - The Wasted Years - 60 min. sound - b & w. (16)

SOCIOLOGY - MIGRATION AND MIGRANTS

Goodbye to Carolina - 28 min. sound - b & w. (99)
Metroplex Assembly Series - 20 min. sound - color or b & w. (150)
Safe Food (Negro Cast) - 9 min. sound - b & w. (42)

SOCIOLOGY - MISCELLANEOUS

Brotherhood of Man - 10 min. sound - color. (8)
Bug, The - 6 min. sound - b & w. (13)
Common Fallacies About Group Differences - 15 min. sound - b & w. (8)
Everyone Helps in a Community - 14 min. sound - color. (26)
Family, The - 20 min. sound - b & w. (42)
Family of Man, The - 20 min. sound - b & w. (42)
Homosexuals, The - 45 min. sound - b & w. (24)
Lecture on Man, A - 4 min. sound - b & w. (151)
Man and His Culture - 15 min. sound - b & w. (25)
Savages, The - 25 min. sound - b & w. (53)
Sex in the Sixties - 52 min. sound - color. (152)
Walk in My Shoes - 54 min. sound - color. (153)
What Is a Neighborhood - 11 min. sound - color or b & w. (12)

TECHNOLOGY

Living Machine, The - Pt. 1 - 29 min. sound - b & w. (124)
Living Machine, The - Pt. 2 - 30 min. sound - b & w. (124)
Technological Development - 30 min. sound - b & w. (16)
Technology and You (Rev. Ed.) - 13 min. sound - color. (154)

TRANSPORTATION

Highways Are For People - 27 min. sound - color. (63)

UNITED NATIONS

All Kinds of People - 13 min. sound - color. (124)
Economic and Social Council, The - 15 min. sound - b & w. (8)
Minds of Men - 29 min. sound - b & w. (8)
That All May Learn - 19 min. sound - b & w. (155)
Three of Our Children - 30 min. sound - b & w. (64)

U.S.A. - ECONOMY

America Becomes an Industrial Nation - 25 min. sound - color. (8)
Economic Opportunity Act, The - 26 min. sound - b & w. (99)
People of Plenty - 30 min. sound - b & w. (25)

U.S.A. - GEOGRAPHY

American Desert, The - 16 min. sound - color or b & w. (156)
Dust Bowl - 26 min. sound - b & w. (8)
Dust is Dying, The - 14 min. sound - color. (3)
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Pacific Northwest - Putting Water to Work, The - 19 min. sound - color or b & w. (8)
Wealth Out of Wilderness - 24 min. sound - b & w. (129)

U.S.A. - POPULATION

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Middle Atlantic Seaboard Region - Great Cities - Megalopolis, The - 16 min. sound - color or b & w. (8)
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Population Patterns in the United States - 11 min. sound - b & w. (12)
Squandered Heritage - 14 min. sound - color. (158)
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U.S.A. - Time for Decision - 60 min. sound - b & w. (16)

U.S.A. - POVERTY

Captive, The - 28 min. sound - b & w. (148)
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U.S.A. - URBAN PROBLEMS

At the Crossroads - 12 min. sound - color. (63)
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Battle of Newburgh, The - 54 min. sound - b & w. (8)
Chicago - Midland Metropolis - 22 min. sound - color or b & w. (25)
Harlem Crusader - 29 min. sound - b & w. (25)
Neglected, The - 30 min. sound - b & w. (33)
Portrait of the Inner City - 15 min. sound - b & w. (8)
Uptown - Portrait of a New York City Slum - 29 min. sound - b & w. (116)

WASTE DISPOSAL

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Incineration - 13 min. sound - color. (63)
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Refuse Problem, The - 14 min. sound - color. (159)
Sanitary Landfills - 20 min. sound - color. (44)

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Troubled Waters - 28 min. sound - color. (160)

WATER RESOURCE MANAGEMENT

Billion Gallons a Day - 27 min. sound - color. (161)
California's State Water Project - 26 min. sound - color. (162)
Columbia, The - 10 min. sound - color. (124)
Columbia River, The - 11 min. sound - color or b & w. (12)
Columbia - River of Planned Destiny, The - 27 min. sound - color. (63)
River of Grass - 26 min. sound - color. (109)
Water and the Land, The - 11 min. sound - color. (124)
Water and You - Feather River Project - 27 min. sound - color. (163)
Water for All Living Things - 9 min. sound - color. (83)
Water Supply (Rev. Ed.) - 11 min. sound - color or b & w. (136)
Wildlife on the Mainstem - 27 min. sound - color. (63)
Wildlife Refuge - 14 min. sound - color. (106)

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Motion Pictures Service
Room 1850 South Building
Washington, D.C. 20250

4. National Medical Audio-Visual
Center Annex, Station K
Atlanta, Ga. 30324

5. Visual Aids Service
University of Illinois
Division of University Extension
Champaign, Ill. 61820

6. Kaiser Steel
300 Lakeside Drive
Oakland, Ca. 94612

7. U.S. Public Health Service
Welfare Building
4th St. & Independence Ave., SW
Washington, D.C. 20201

8. Contemporary Films/McGraw-Hill
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Hightstown, N.J. 08520

9. Modern Talking Pictures
Service, Inc.
1234 Spruce Street
Philadelphia, Pa. 19107

10. Journal Films
909 W. Diversey Parkway
Chicago, Ill. 60614

11. Boyd Film Company
1569 Selby Avenue
St. Paul, Minn. 55104

12. Coronet Films
Sales Department
65 E. South Water Street
Chicago, Ill. 60601

13. University of Southern California
Division of Cinema
Film Distribution Section
University Park
Los Angeles, Ca. 90007

14. University of Delaware Instructional Films
Instructional Resources Center
University of Delaware
Newark, De. 19711

15. Film Associates
11559 Santa Monica Blvd.
Los Angeles, Ca. 90025

16. Indiana University
Audio-Visual Center
Bloomington, Ind. 47401
Attn: NET Film Service

17. Planned Parenthood-World
Population Film Library
267 W. 25th St.
New York, N.Y. 10001

18. Stuart Finley, Inc.
3428 Mansfield Road
Falls Church, Va. 22041

19. NBC Educational Enterprises
Room 1040
30 Rockefeller Plaza
New York, N.Y. 10020

20. National Council of Churches
Broadcasting & Film Commission
475 Riverside Drive
New York, N.Y. 10027

21. Population Dynamics
13201 9th Ave., NW
Seattle, Wash. 98177

22. University of Washington Press
1416 NE 41st St.
Seattle, Wash. 98105

23. NTS Films
National Talent Service, Inc.
136 East 57th Street
New York, N.Y. 10022

24. Carousel Films, Inc.
1501 Broadway, Suite 1503
New York, N.Y. 10036

25. Encyclopaedia Britannica Films
Encyclopaedia Britannica
Educational Corp.
26 Summit Grove Ave.
Bryn Mawr, Pa. 19010
or
425 N. Michigan Ave.
Chicago, Ill. 60611

26. Churchill Films
662 N. Robertson Blvd.
Los Angeles, Ca. 90069

27. Yeshiva University Film Library
526 W. 187th St.
New York, N.Y. 10033

28. The American Chemical Society
News Service
1155 Sixteenth St., NW
Washington, D.C. 20036

29. WOR-TV
1440 Broadway
New York, N.Y. 10018

30. University of Michigan
Audio-Visual Education Center
416 Huron St.
Ann Arbor, Mich. 48103

31. International Communication Films
1371 Reynolds Ave.
Santa Ana, Ca. 92705

32. Centron Educational Films
1621 W. Ninth St.
Lawrence, Ks. 66044
Send orders to:
Frank A. Brady, Associates
Spread Eagle Village
Wayne, Pa. 19087

33. International Film Bureau, Inc.
332 S. Michigan Ave.
Chicago, Ill. 60604

34. Henk Newenhouse, Inc.
1825 Willow Rd.
Northfield, Ill. 60093

35. BFA Educational Media
2211 Michigan Ave.
Santa Monica, Ca. 90404

36. Delaware Oil Men's Association
P.O. Box 449
Dover, De. 19901

37. New York State Department
of Health
P.O. Box 7283
84 Holland Ave.
Albany, N.Y. 12224

38. Learning Corporation of America
711 5th Ave.
New York, N.Y. 10022

39. King Screen Productions
320 Aurora Ave., N
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40. U.S. Soil Conservation Service
14th St. & Independence Ave., SW
Washington, D.C. 20250

41. United Church Board for Homeland
Ministries
287 Park Ave., S
New York, N.Y. 10010

42. DuArt Film Laboratories, Inc.
U.S. Government Film Services
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New York, N.Y. 10019

43. Modern Talking Picture Service
1212 Avenue of the Americas
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44. Film Library
Department of Health and Social
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State Health Building
Federal and Water Streets
Dover, De. 19901

45. Parthenon Pictures
2625 Temple Street
Los Angeles, Ca. 90026

46. Buena Vista Distribution Co.
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47. Shell Film Library
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48. WCBS-TV
51 W. 42nd St.
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49. Richfield Oil Co.
P.O. Box 75007
Stanford Station
Los Angeles, Ca. 90005

50. Portland Cement Association
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51. National Film Board of Canada
680 Fifth Ave., Suite 819
New York, N.Y. 10019

52. Atlantis Productions, Inc
1252 La Granada Dr.
Thousand Oaks, Ca. 91360

53. University of California
(Berkeley)
Extension Media Center, Film
Distribution
2223 Fulton St.
Berkeley, Ca. 94720

54. Planned Parenthood-World
Population
406 West 34th St.
Kansas City, Mo. 64111

55. Standard Oil Company of New
Jersey
30 Rockefeller Plaza
New York, N.Y. 10020

56. Film Library
Department of Public Instruction
P.O. Box 697
Dover, De. 19901

57. Roy Wilcox Productions
Allen Hill
Meriden, Ct. 04650

58. Canadian Council of Resource
Ministers
Montreal
Quebec, Canada

59. International Planned Parenthood Federation
18-20 Lower Regent St.
London, SW1, England

60. Sierra Club
1050 Mills Tower
San Francisco, Ca. 94104

61. Mr. Sid L. Schwartz
Division of Public Information
U.S. Atomic Energy Commission
Washington, D.C. 20545

62. General Electric
Educational Films
60 Washington Ave.
Schenectady, N.Y. 12305

63. National Audio-Visual Center
General Services Administration
Sales Branch
Washington, D.C. 20409

64. Association Instructional Materials
Association Films, Inc.
600 Madison Ave.
New York, N.Y. 10022

65. Doubleday Multimedia
1371 Reynolds Avenue
Santa Ana, Ca. 92705

66. Allend'or Productions
3449 Cahuenga Blvd., W
Hollywood, Ca. 90028

67. Astrafilms, Inc.
10524 Detrick Ave.
Kensington, Md. 20795

68. Films, Inc.
35-01 Queens Blvd.
Long Island City, N.Y.11101

69. Director of Community Organization
City Planning Associates
524 E. McKinley Highway
Mishawaka, Ind. 46544

70. Pyramid Film Productions
P.O. Box 1048
317 Georgina Ave.
Santa Monica, Ca. 90406

71. Mississippi River Commission
P.O. Box 50
Vicksburg, Ms. 39180

72. Mississippi River Commission
St. Louis District
906 Olive St.
St. Louis, Mo. 63101

73. Mississippi River Commission
Memphis District
668 Federal Office Building
Memphis, Tn. 38103

74. University of Minnesota
Audio-Visual Educational Service
Room 55, Westbrook Hall
Minneapolis, Mn. 55455

75. WCAU-TV
City Line and E. Monument Ave.
Philadelphia, Pa. 19131

76. Interstate Commission on the
Potomac River Basin
203 Transportation Building
Washington, D.C. 20006

77. National Medical Audio-Visual
Center
Atlanta, Ga. 30333

78. Ealing Company
2225 Massachusetts Ave.
Cambridge, Ma. 02140

79. Community Improvement Program
Centennial Commission
P.O. Box 1967
Ottawa, Canada

80. Carolina Population Center
University of North Carolina
Chapel Hill, N.C. 27514

81. New York University, Film Library
26 Washington Place
New York, N.Y. 10003

82. Ohio Department of Natural
Resources
1500 Dublin Road
Columbus, Oh. 43212

83. Educational Horizons
taken over by Encyclopaedia
Britannica Educational Corp.
3015 Dolores St.
Los Angeles, Ca. 90065

84. American Film Studios, Inc.
P.O. Box 4126
Hamden, Ct. 06514

85. Xerox Films
Department 105
High Ridge Park
Stamford, Ct. 06904

86. Director of Advancement and
Public Information
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2 Park Avenue
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87. Hamilton Film Service
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88. Brooks Institute of Photography
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89. Universal Education and Visual Arts
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90. Milner-Fenwick, Inc.
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94. Wrather Corporation
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2408 W. Olive St.
Burbank, Ca. 91506

96. Center for Mass Communication of Columbia University Press
136 South Broadway
Irvington, N.Y. 10533

97. Bureau of Audio-Visual Instruction
The University of Wisconsin
1312 W. Johnson Street
Madison, Wi. 53706

98. Av-Ed Films
7934 Santa Monica Blvd.
Hollywood, Ca. 90046

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100. Rockefeller Foundation
111 W. 50th St.
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101. Council of California Growers
520 El Camino Real
San Mateo, Ca. 94402

102. National Plant Food Institute
1700 K St., NW
Washington, D.C. 20006

103. Sterling Movies, USA
375 Park Ave.
New York, N.Y. 10022

104. WABC-TV
1330 Avenue of the Americas
New York, N.Y. 10019

105. Educational Testing Service
Cooperative Test Division
20 Nassau St.
Princeton, N.J. 08540

106. Bailey Films Association
11559 Santa Monica Blvd.
Los Angeles, Ca. 90025

107. Northern Films
Box 98
Main Office Station
Seattle, Wash. 98111

108. United World Films, Inc.
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109. A-V Explorations, Inc.
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110. American Telephone and Telegraph Company
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111. Museum of Modern Art
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Pasadena, Ca. 91104

115. Audio-Visual Department
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116. Danska Films
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117. Thomas Barbre Productions
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127. Walt Disney Productions
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128. Theodore Holcomb
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129. Modern Learning Aids
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Wilmington, De. 19805

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133. Russell Film Laboratories
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134. U.S. Department of Interior
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Washington, D.C. 20240

135. Hearst Metrotone News
450 W. 56th St.
New York, N.Y. 10019

136. Academy Films
748 N. Seward St.
Los Angeles, Ca. 90038

137. Division Engineer
U.S. Army Engineer Division, New England
424 Trapello Rd.
Waltham, Ma. 02154

138. Ohio State University
Motion Picture Division
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Columbus, Oh. 43210

139. E.R. Squibb & Sons
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New York, N.Y. 10022

140. Photograph Division
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141. Photo Lab, Inc.
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142. Calvin Productions, Inc.
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144. Smart Family Foundation
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145. Vision Associates
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New York, N.Y. 10019

146. Tennessee Game and Fish
Commission
Box 9400
White's Creek Pike
Nashville, Tn. 37220

147. Teaching Film Custodians
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New York, N.Y. 10036

148. Cokesbury
Service Department
100 Maryland Ave., NE
Washington, D.C. 20002

149. Rarig's, Inc.
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Seattle, Wash. 98105

150. Audio-Visual Department
Washington University
St. Louis, Mo. 63130

151. Audio/Brandon
34 MacQuesten Parkway So.
Mount Vernon, N.Y. 10550

152. Irving Gitlin Productions, Inc.
870 7th Ave., Tower Suite 30D
New York, N.Y. 10019

153. ABC-Inter-Group Relations
1330 Avenue of the Americas
New York, N.Y. 10019

154. Neubacher-Vetter Film Production
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Los Angeles, Ca. 90024

155. United Nations
Films and TV
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156. Stanton Films
7934 Santa Monica Blvd.
Los Angeles, Ca. 90046

157. U.S. Forest Service
6816 Market St.
Upper Darby, Pa. 19082

158. Planned Parenthood Association -
Chicago Area
185 North Wabash Avenue
Chicago, Ill 60601

159. Virginia Department of Education
Film Production Service
523 Main St.
Richmond, Va. 23216

160. Committee on Public Works
The U.S. Senate, Room 4204
New Senate Office Building
Washington, D.C. 20510

161. Metropolitan Water District of
Southern California
1111 Sunset Blvd.
Los Angeles, Ca. 90012

162. California State Department
of Water Resources
P.O. Box 388
Sacramento, Ca. 95802

163. Telefilm Industries, Inc.
1159 N. Highland Ave.
Los Angeles, Ca. 90038

164. Universal/16
Universal Educational & Visual Arts
P.O. Box 9665
North Hollywood, Ca. 91609

165. New York University
26 Washington Place
New York, New York 10003

POPULATION CURRICULUM STUDY
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the Earth, and is ultimately
subject to the limits of the system.

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